
HP Apollo 9000 Series 400 & Series 700 U.S. Pricing & Configuration Guide

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PACKARD

*Workstation
Systems Division*

HP Apollo 9000 Series 400/700

HP Apollo 9000 Workstation Price Guide



Series 700 and Series 400

(Revised - effective May 1992)

WORKSTATIONS, SERVERS, OPTIONS, PERIPHERALS & SOFTWARE

All Workstations include a high performance processor, a memory management unit, a local area network interface and an integrated high resolution bit-mapped graphics display with detachable keyboard. A license to use the HP-UX Run-Time Environment operating system, pursuant to Hewlett Packard's then current applicable software license terms and conditions, is granted by Hewlett Packard with each workstation.

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HP Apollo 9000 Series 400/700

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WORKSTATIONS & SERVERS

INTRODUCTION

What's New in this Guide

The Series 700 line of workstations, servers, software and other system components has been substantially revised and enhanced. This Price Guide includes all of the new products and functionality, all changes to previously offered products, and a complete listing and schedule of all product being removed from the product line. These are the new products you will find in this guide:

New Hardware Products

- Model 710 Workstations
- CRX-24 24 Plane Integrated Graphics
- CRX-24Z 24 Plane Accelerated Graphics
- Multi-head Graphics
- 2X increased RAM capacity
- Differential SCSI II Disk Arrays
- 1350SE Mass Storage System
- 7980s 9-track Tape Drive
- 3.5" DDS (DAT) drive
- 3.5" DDS-DC (DAT) drive with data compression
- 57GB MOD Autochanger
- 94GB MOD Autochanger
- X.25 Link
- FDDI
- IEEE 802.5 Token Ring
- Server 700 bundled server configurations
- PC-AT style keyboard

New Software Products

- HP-UX 8.07
- PowerShade 3-D surface rendering software
- PHIGS 2.2
- GOSIP/802.3 E-mail
- NFS auto-mounter
- OpenView Network Manager
- Audio developer tools
- Image Developer's Toolkit

How to Use this Guide

Immediately following this introduction is a summary System Overview. There, you will find a brief listing of system standard features for each of the Series 700 models, for the various graphics options available, and for the HP-UX Release 8.07 operating system. When you have chosen the model and graphics option that seems appropriate, you can turn to the section of the Price Guide on that model.

The sections of this guide that cover the workstation models (Model 710, Model 720, Model 730, and Model 750) and the servers are organized around the three categories of hardware from which you may want to order:

- 1) A fully operational basic workstation (including SPU, graphics, RAM and disk) is ordered on a single product number called a *Standard Configuration*. A *localization kit* must be ordered with each *Standard Configuration*. Server *Standard Configurations* have a similar structure, but contain more base memory and storage.
- 2) Factory integrated *Configuration Options* are also available to provide a wide range of choices of system RAM, internal storage, and other options (installed prior to delivery).
- 3) Customer or field installable *Add-on Options* allow many of the same choices for configuration that are available with the factory integrated options, in case the decision to add functionality is made after the initial system has been installed. In addition, these options provide configuration choices not available with the factory integrated options.

In order to guide you through the simple steps of configuring your system, a *System Options Diagram*, and a *Factory Configuration Matrix* are provided for each model. The *Systems Options Diagram* graphically depicts the technical configuration constraints of each model. Not every technically feasible combination of options can be factory integrated, however. To determine if the combination of features you want is available in a factory integrated configuration, check the *Factory Configuration Matrix*. Most standard configurations and options can be completely configured at the factory. If not, choose from other options in the add-on section.

Now that your workstation is complete, turn to the other sections of the Series 700 Price Guide to add any further peripherals and the cables required to connect them, software and support.



HP Apollo 9000 Series 700

SYSTEMS OVERVIEW - Desktop Systems

Model 705 Desktop Workstation

- 35MHz PA-RISC processor and 35MHz floating point processor delivers 34 SPECmarks, 35 MIPS, and 8 MFLOPS
- integrated 2D/3D wireframe graphics
- configurable with 8 to 64 MB main memory
- configurable with a maximum of 2 internal storage devices
- 1 Audio Input & 1 Audio Output port (*supported with HP-UX 8.07*)
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- external SCSI-II port (support for a total of up to 7 devices - including internal)
- supports up to 9.45GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with ThinNet
- auto selecting power supply 115V/230V
- operating environment: HP-UX 8.07 Run-Time, 2 user license-to-use
- documentation (Owner's Guides and General Usage manuals:
 HP VUE User's Guide, Using the X windows System,
 A Beginner's Guide to HP-UX, Finding Information (HP-UX)).
- stand and labels for optional deskside use

Model 710 - Desktop Workstation

- 50MHz PA-RISC processor integral with 50MHz floating point co-processor
- delivers 49.7 SPECmarks, 57.9 MIPS, and 12.2 MFLOPS
- integrated 2D/3D wireframe graphics
- configurable with 16 to 64MB main memory
- configurable with a maximum of 2 internal storage devices
- 1 audio input and 1 audio output port (*supported with HP-UX 8.07*)
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- external SCSI II port (support for a total of up to 7 devices - including internal)
- supports up to 9.45GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with ThinLAN
- auto selecting power supply 115V/230V
- operating environment: HP-UX 8.07 Run-Time, 2 user license-to-use
- documentation (Owner's Guides and General Usage manuals:
 HP VUE User's Guide, Using the X windows System,
 A Beginner's Guide to HP-UX, Finding Information (HP-UX)).
- stand and labels for optional deskside use

Model 720 - Desktop Workstation

- 50MHz PA-RISC processor integral with 50MHz floating point co-processor
- delivers 59.5 SPECmarks, 57.9 MIPS, and 17.9 MFLOPS
- configurable with 16 to 128MB main memory
- configurable with a maximum of 2 internal 3.5" storage devices
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- external SCSI II port (support for a total of up to 7 devices - including internal)
- supports up to 64GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with ThinLAN
- optional 32 bit EISA bus (1 slot)
- auto selecting power supply 115V/230V
- operating environment: HP-UX 8.07 Run-Time, 2 user license-to-use
- documentation (Owner's Guides and General Usage manuals:
 HP VUE User's Guide, Using the X windows System,
 A Beginner's Guide to HP-UX, Finding Information (HP-UX)).
- stand and labels for optional deskside use



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SYSTEMS OVERVIEW – Deskside Systems

Model 730 – Midrange Desktop Workstation

- 66MHz PA-RISC processor integral with 66MHz floating point co-processor
- delivers 76.8 SPECmarks, 76.7 MIPS, and 23.7 MFLOPS
- configurable with 32 to 128MB main memory
- configurable with a maximum of 2 internal 3.5" storage devices
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- external SCSI II port (support for a total of up to 7 devices – including internal)
- supports up to 64GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with ThinLAN
- includes EISA bus (1 slot)
- auto selecting power supply 115V/230V
- operating environment: HP-UX 8.07 Run-Time, 2 user license-to-use
- documentation (Owner's Guides and General Usage manuals:
 HP VUE User's Guide, Using the X windows System,
 A Beginner's Guide to HP-UX, Finding Information (HP-UX)).
- stand and labels for optional deskside use

Model 750 – Deskside Workstation

- 66MHz PA-RISC processor integral with 66MHz floating point co-processor
- delivers 77.5 SPECmarks, 76.7 MIPS, and 23.7 MFLOPS
- configurable with 64 to 384MB main memory
- configurable with maximum of 2 full height 5 1/4" SCSI II disks and 2 half height or 1 full height removable media SCSI II devices
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- external SCSI II port (support for a total of up to 7 devices – including internal)
- supports up to 236GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with ThinLAN
- includes EISA bus (4 slots)
- auto selecting power supply 115V/230V
- operating environment: HP-UX 8.07 Run-Time, 2 user license-to-use
- documentation (Owner's Guides and General Usage manuals:
 HP VUE User's Guide, Using the X windows System,
 A Beginner's Guide to HP-UX, Finding Information (HP-UX)).

Operating Environment

HP-UX Release 8.07 Run-Time Environment Key Standard Features:

- | | |
|---|---|
| <ul style="list-style-type: none">- HP-UX 8.07 Operating Systems- HP VUE 2.01- ARPA Berkeley services- Network File System (NFS)- HP Diskless- LAN Link software- Native Language Support (NLS)- System Administration Manager (SAM)- Run-Time C Compiler- Disk quotas- Keyshell – the new, easy-to-use, menu-driven shell- Diagnostics- Compliance with XPG, POSIX, FIPS, SVID | <ul style="list-style-type: none">- Run-Time support for:<ul style="list-style-type: none">- Network License Server (NetLS)- Network Computing System (NCS)- Applications using Starbase Graphics Library- Applications using Starbase Display List- Applications taking advantage of shared libraries- Applications built on OSF Motif and X Window |
|---|---|



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Graphics Options

Model 705/710 Grayscale

- 8-bit Grayscale
- 256 shades of gray
- 1280x1024 resolution, 19" display
- 72 Hz monitor refresh rate
- Accelerated X11 performance

GRX Grayscale

- 8-bit Grayscale
- 256 shades of gray
- 1280x1024 resolution, 19" display
- 72 Hz monitor refresh rate
- Accelerated X11 performance
- Hardware cursors

CRX-24 Color

- 24 image planes (12/12 plane double-buffer)
- 16.7 million colors
- 1280x1024 resolution, 19" display
- 72Hz monitor refresh rate
- 8 overlay planes

TVRX 3D Color (T4)

- 24 image planes (12/12 double-buffered)
- 16.7 million colors
- 1280x1024 resolution, 19" display
- 72Hz monitor refresh rate
- 24-bit Z-buffer
- 12/12 double buffering with dithering
- 4 transform engines
- Sub-pixel addressing
- 12-bit color indexing
- Transparency (screen door/alpha blending)
- Wireframe depth cueing
- The Personal Visualizer

Model 705/710 Color

- 8-bit color
- 256 colors
- 1280x1024 resolution, 19" display
- 1024x768 resolution, 16" display
- 72 Hz monitor refresh rate
- Accelerated X11 performance

CRX Color

- 8-bit color
- 256 colors
- 1280x1024 resolution, 19" display
- 8/8 plane double-buffering
- 72 Hz monitor refresh rate
- Accelerated X11 performance
- 2D/3D color vector performance
- Hardware cursors

CRX-24Z Color

- 24 image planes (12/12 double-buffered)
- 16.7 million colors
- 1280x1024 resolution, 19" display
- 72Hz monitor refresh rate
- 8 overlay planes
- 24-bit hardware Z-buffer
- Accelerated polygon performance
- Anti aliasing
- PowerShade software with The Personal Visualizer

PowerShade Software

- Hidden line/surface removal
- Smooth Shading
- Light sources and reflections
- Backface cull
- Capping and interleaves
- Voxel primitive
- The Personal Visualizer



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SERIES 700 WORKSTATION LOCALIZATION

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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WORKSTATION LOCALIZATION KITS

(MUST ORDER WITH EVERY SERIES 700 WORKSTATION)

A1099B HP-UX Localization kit (HP-UX 8.0). Includes keyboard, mouse, power cord and HP-UX 8.0 "General Usage" documentation. Must order localization option. **\$100.**
Includes Country specific keyboard and country specific power cord

Localization options #ABA through #AR0 (below)

N/C

#ABA U.S. English	#ABK ICON	#ABW Belgian Dutch
#ABC French Canadian	#ABM Latin Spanish	#ABX Finnish
#ABD German	#ABN Norwegian	#ABY Danish
#ABE European Spanish	#ABP Swiss German	#ABZ Italian
#ABF European French	#ABQ Swiss French	#AB0 Taiwan
#ABH Dutch	#ABS Swedish	#AB1 Korean
#ABJ Katakana	#ABU UK	#AR0 Kanji

A2205A HP-UX Localization kit with PC-style keyboard. Includes PC-style keyboard, mouse, power cord and HP-UX 8.0 "General Usage documentation". Must order localization option. **\$100.**
NOTE: Requires HP-UX 8.0 Option Number #0DJ

Localization options #ABA through #AR0 (below)

N/C

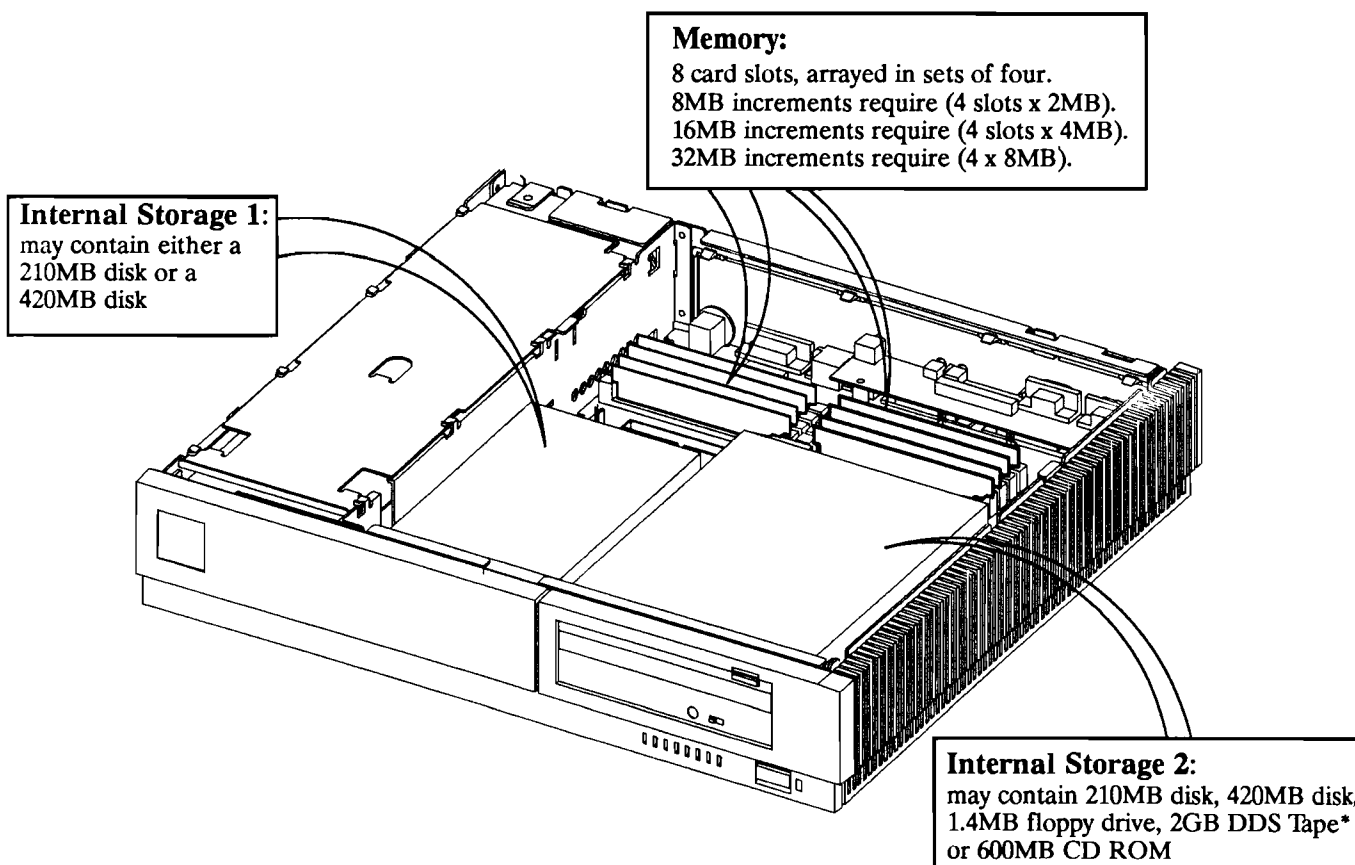
#ABA English Keyboard, N. American power cord	#ABJ English Keyboard, Japanese power cord	#ABS English Keyboard, Swedish power cord
#ABC English Keyboard, N. American power cord	#ABK English Keyboard, International power cord	#ABU English Keyboard, U.K. power cord
#ABD German Keyboard, German power cord	#ABM English Keyboard, Latin Amer. power cord	#ABW English Keyboard, Belgian power cord
#ABE English Keyboard, Spanish power cord	#ABN English Keyboard, Norwegian power cord	#ABX English Keyboard, Finnish power cord
#ABF English Keyboard, French power cord	#ABP German Keyboard, Swiss power cord	#ABY English Keyboard, Danish power cord
#ABH English Keyboard, Dutch power cord	#ABQ English Keyboard, Swiss power cord	#ABZ English Keyboard, Italian power cord
#AB0 English Keyboard, Taiwanese power cord	#AB1 English Keyboard, Korean power cord	#AR0 English Keyboard, Japanese power cord

HP Apollo 9000 Series 700

Model 705 Desktop Workstation System Standard Features

- 35MHz PA-RISC processor and 35MHz floating point processor delivers 34 SPECmarks, 35 MIPS, and 8 MFLOPS
- integrated 2D/3D wireframe graphics
- configurable with 8 to 64 MB main memory
- configurable with a maximum of 2 internal storage devices
- 1 Audio Input & 1 Audio Output port (*supported with HP-UX 8.07*)
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- external SCSI-II port (support for a total of up to 7 devices - including internal)
- supports up to 9.45GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with ThinNet
- auto selecting power supply 115V/230V
- operating environment: HP-UX 8.07 Run-Time, 2 user license-to-use
- documentation (Owner's Guides and General Usage manuals:
 HP VUE User's Guide, Using the X windows System,
 A Beginner's Guide to HP-UX, Finding Information (HP-UX)).
- stand and labels for optional deskside use

Model 705 System Options Diagram





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Model 705 PA-RISC Workstations

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Standard Configurations (supports Factory Integrated Options)

Model 705 Diskless Workstations:

A2289A	19" grayscale monitor, 16MB RAM, diskless May be ordered with Factory Integrated options: 001, AN4, AN8, AND, AM0, AMK, AMB, AM8, AMW, AL9, 0DJ	Localization Kit See page A-5	\$5,890.	\$32.
A2648A	16" color monitor, 16MB RAM, diskless May be ordered with Factory Integrated options: AN4, AN8, AND, AMK, AMB, AM8, AMW, AL9, 0DJ	Localization Kit See page A-5	\$8,890.	
A2649A	19" color monitor, 16MB RAM, diskless May be ordered with Factory Integrated options: AN4, AN8, AND, AMK, AMB, AM8, AMW, AL9, 0DJ	Localization Kit See page A-5	\$9,890.	

Factory Integrated Options

Memory

#001	Delete 8MB memory, for a total of 8MB factory integrated. <i>Not available on model 705 color systems</i> <i>May NOT be ordered concurrently with options AN4, AN8, AND, AM0, AMK, AMB, AMW, or AM8.</i>	Model 705 Grayscale -	\$1,000.	- \$4.
#AN4	Add 8MB memory, for a total of 24MB factory integrated. <i>Maximum of one factory integrated memory option per workstation.</i> <i>May NOT be ordered concurrently with options AN8, AND or 001.</i> NOTE: 24MB memory uses all 8 memory slots.		\$1,000.	\$4.
#AN8	Add 16MB memory, for a total of 32MB factory integrated. <i>Maximum of one factory integrated memory option per workstation</i> <i>May NOT be ordered concurrently with options AN4, AND or 001.</i>		\$2,000.	\$8.
#AND	Add 48MB memory, for a total of 64MB factory integrated. <i>Maximum of one factory integrated memory option per workstation..</i> <i>May NOT be ordered concurrently with options AN4, AN8 or 001.</i>		\$6,000.	\$24.

Internal Storage

#AM0	Add 210MB SCSI-II disk drive, factory integrated. <i>Not available on model 705 color systems</i> <i>Maximum of one option AM0 per workstation.</i> <i>May not be ordered with option 001</i>	Model 705 Grayscale diskless and 16MB RAM	\$2,000.	\$14.
#AMK	Add 420MB SCSI-II disk drive, factory integrated. <i>May order one or two per workstation. May NOT be ordered concurrently with option AM0 or 001.</i>	Model 705 diskless and 16MB RAM	\$2,500.	\$24.
#AMB	Add 1.4MB 3.5" SCSI-II floppy disk drive, factory integrated. <i>May NOT be ordered concurrently with options AM8, AMW, or 001</i>	Model 705 with 16MB RAM and no more than one disk	\$500.	\$5.
#AMW	Add 2 GB 3.5" DDS SCSI-II tape drive, factory integrated. <i>May NOT be ordered concurrently with options AMB, AM8, or 001.</i>	Model 705 with 16MB RAM and no more than one disk	\$2,500.	\$26.
#AM8	Add 600MB 5.25" CD ROM SCSI-II drive, factory integrated. <i>May NOT be ordered concurrently with option AMB, AMW, or 001.</i>	Model 705 with 16MB RAM and no more than one disk	\$1,000.	\$18.



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Model 705 PA-RISC Workstations

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Factory Integrated Options

Other Options

#AL9	Factory select LAN AUI (ThickNet) configuration. This option overrides default ThinNET Ethernet connection.	External Transceiver	N/C	N/C.
#0DJ	HP-UX 8.07 Run-Time Instant Ignition, 2-user license Pre-loaded and pre-configured HP-UX 8.07 Run-Time Environment.	Requires at least 420MB disk	\$75.	

MODEL 705 ADD-ON - OPTIONS (customer or field installed)

UPGRADE

A2647A	Model 705 to Model 710 CPU upgrade Exchange CPU must be returned to factory.	Model 705 color 16" or 19"	\$3,500.	
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MEMORY

A2216A	8MB RAM add-on. (Consisting of 4 x 2MB boards) See System Configuration Diagram for maximum memory constraints	Model 705	\$1,000.	\$4.
A2217A	16MB RAM add-on. (Consisting of 4 x 4MB boards) See System Configuration Diagram for maximum memory constraints	Model 705	\$2,000.	\$8.
A2218A	32MB RAM add-on. (Consisting of 4 x 8MB boards) See System Configuration Diagram for maximum memory constraints	Model 705	\$4,000.	\$16.

INTERNAL STORAGE

NOTE: Requires minimum of 16MB of memory.

A2219A	210MB internal SCSI-II disk <i>Not available on color systems</i>	Model 705 diskless systems	\$2,000.	\$14.
A2221A	420MB internal SCSI-II disk	Model 705 with no more than one disk	\$2,500.	\$24.
A2223A	Add 1.4MB 3.5" Floppy Disk Drive	Model 705 with no more than one disk	\$500.	\$5.
A2224A	Add 600MB 5.25" CD ROM Drive	Model 705 with no more than one disk	\$1,000.	\$18.
A2274A	Add 2GB DDS Tape Drive Must be ordered with option AHR	Model 705 with no more than one disk and HP-UX 8.07	\$2,500.	\$26.
#AHR	Upgrade Kit for Model 705 and 710		N/C	
A2275A	Add 4mm DDS-DC Tape Drive (with data compression) Must be ordered with option AHR	Model 705 with no more than one disk and HP-UX 8.07	\$3,500.	\$29.
#AHR	Upgrade Kit for Model 705 and 710		N/C	



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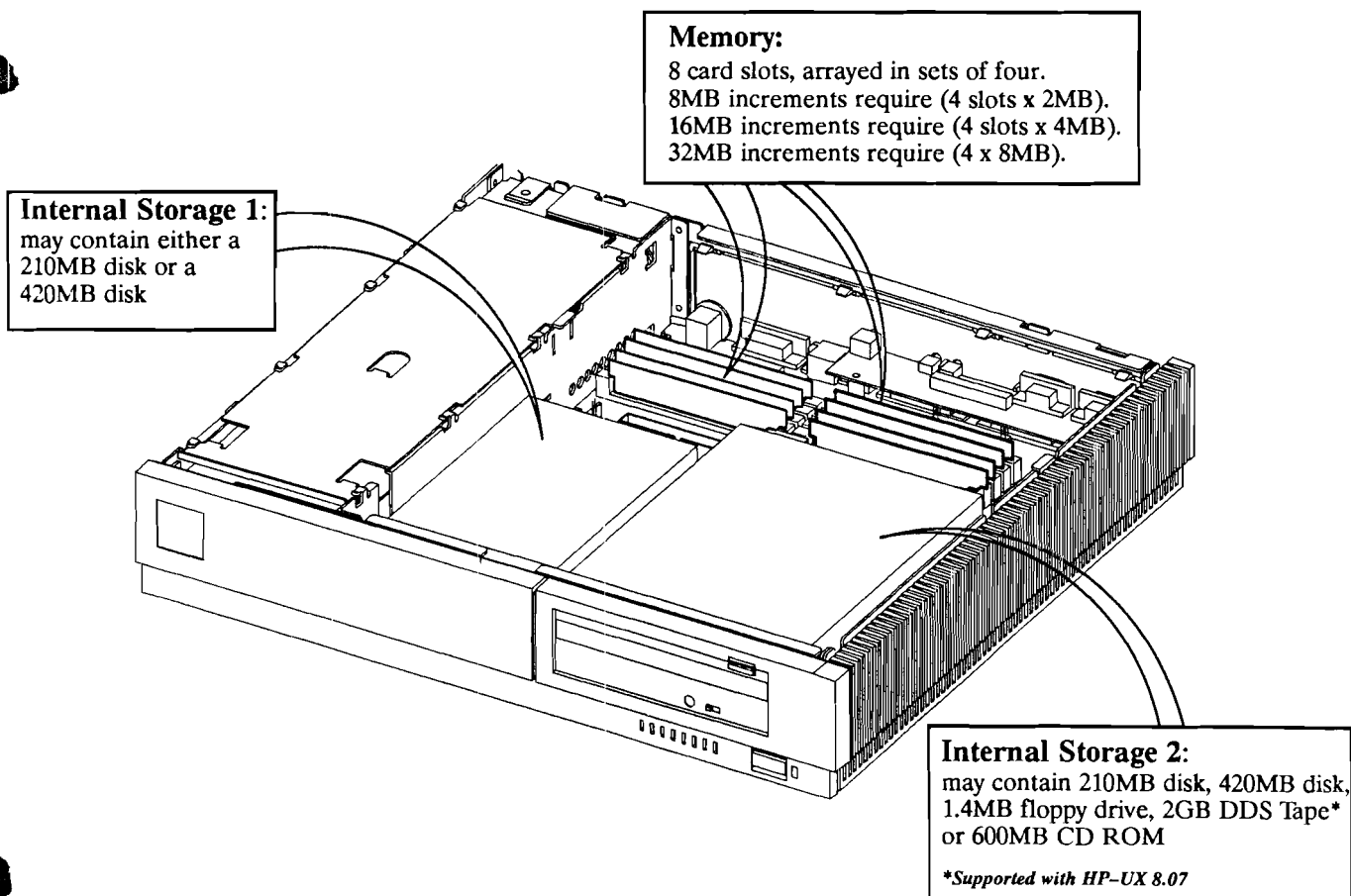
Workstation
Systems Division

HP Apollo 9000 Series 700

Model 710 Desktop Workstation System Standard Features

- 50MHz PA-RISC processor and 50MHz floating point processor delivers 49.7 SPECmarks, 57.9 MIPS, and 12.2 MFLOPS
- integrated 2D/3D wireframe graphics
- configurable with 16 to 64 MB main memory
- configurable with a maximum of 2 internal storage devices
- 1 Audio Input & 1 Audio Output port (*supported with HP-UX 8.07*)
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- external SCSI-II port (support for a total of up to 7 devices – including internal)
- supports up to 9.45GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with ThinNet
- auto selecting power supply 115V/230V
- operating environment: HP-UX 8.07 Run-Time, 2 user license-to-use
- documentation (Owner's Guides and General Usage manuals:
 HP VUE User's Guide, Using the X windows System,
 A Beginner's Guide to HP-UX, Finding Information (HP-UX)).
- stand and labels for optional deskside use

Model 710 System Options Diagram





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*Workstation
Systems Division*

HP Apollo 9000 Series 700

Model 710 PA-RISC Workstations

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Bundled Configurations

Model 710 Grayscale Bundled Configurations

A2209A	19" grayscale monitor, 16MB RAM, one 420MB internal SCSI-II disk, Internal 1.4MB 3.5" Floppy & HP-UX Run-Time Instant Ignition with ThinNET Ethernet connection <i>May NOT be ordered with any factory integrated option.</i>	Localization Kit See page A-5	\$12,465.	\$61.
A2212A	19" grayscale monitor, 16MB RAM, one 420MB internal SCSI-II disk & HP-UX Run-Time Instant Ignition with ThinNET Ethernet connection <i>May NOT be ordered with any factory integrated option.</i>	Localization Kit See page A-5	\$11,965.	\$56.

Model 710 Color Bundled Configurations

A2211A	16" color monitor, 16MB RAM, one 420MB internal SCSI-II disk & HP-UX Run-Time Instant Ignition with ThinNET Ethernet connection <i>May NOT be ordered with any factory integrated option.</i>	Localization Kit See page A-5	\$13,965.	\$54.
A2214A	19" color monitor, 16MB RAM one 420MB internal SCSI-II disk, HP-UX Run-Time Instant Ignition with ThinNET Ethernet connection <i>May NOT be ordered with any factory integrated option.</i>	Localization Kit See page A-5	\$14,965.	\$70.
A2215A	19" color monitor, 32MB RAM 840MB (2 x 420MB) internal SCSI-II disk, HP-UX Run-time Instant Ignition with ThinNET Ethernet connection <i>May NOT be ordered with any factory integrated option.</i>	Localization Kit See page A-5	\$19,465.	\$102.
A2222A	19" color monitor, 32MB RAM one 420MB internal SCSI-II disk, internal 2 GB 3.5" DDS Tape Drive, HP-UX Run-Time Instant Ignition with ThinNET Ethernet connection <i>May NOT be ordered with any factory integrated option.</i> <i>(Supported with HP-UX 8.07 only)</i>	Localization Kit See page A-5	\$19,465.	\$104.

Standard Configurations (supports Factory Integrated Options)

Model 710 Diskless Workstations:

A2208A	19" grayscale monitor, 16MB RAM, diskless May be ordered with Factory Integrated options: AN4, AN8, AND, AM0, AMK, AMB, AM8, AMW, AL9, 0DJ	Localization Kit See page A-5	\$9,390.	\$32.
A2210A	16" color monitor, 16MB RAM, diskless May be ordered with Factory Integrated options: AN4, AN8, AND, AM0, AMK, AMB, AM8, AMW, AL9, 0DJ	Localization Kit See page A-5	\$11,390.	\$30.
A2213A	19" color monitor, 16MB RAM, diskless May be ordered with Factory Integrated options: AN4, AN8, AND, AM0, AMK, AMB, AM8, AMW, AL9, 0DJ	Localization Kit See page A-5	\$12,390.	\$46.



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Workstation
Systems Division

HP Apollo 9000 Series 700

Model 710 PA-RISC Workstations

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Factory Integrated Options

Memory

#AN4	Add 8MB memory, for a total of 24MB factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options AN8 or AND. NOTE: 24MB memory uses all 8 memory slots.</i>		\$1,000.	\$4.
#AN8	Add 16MB memory, for a total of 32MB factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options AN4 or AND.</i>		\$2,000.	\$8.
#AND	Add 48MB memory, for a total of 64MB factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options AN4 or AN8.</i>		\$6,000.	\$24.

Internal Storage

#AM0	Add 210MB SCSI-II disk drive, factory integrated. <i>Maximum of one option AM0 per workstation.</i>	Model 710 diskless system	\$2,000.	\$14.
#AMK	Add 420MB SCSI-II disk drive, factory integrated. <i>May order one or two per workstation. May NOT be ordered concurrently with option AM0. NOTE: When ordering qty 2 of option AMK, options AMB, AMW, or AM8 may not be ordered concurrently.</i>	Model 710 diskless system	\$2,500.	\$24.
#AMB	Add 1.4MB 3.5" SCSI-II floppy disk drive, factory integrated. <i>May NOT be ordered concurrently with options AM8 or AMW</i>	Model 710 with no more than one disk	\$500.	\$5.
#AMW	Add 2 GB 3.5" DDS SCSI-II tape drive, factory integrated. <i>May NOT be ordered concurrently with options AMB or AM8</i>	Model 710 with no more than one disk and HP-UX 8.07	\$2,500.	\$26.
#AM8	Add 600MB 5.25" CD ROM SCSI-II drive, factory integrated. <i>May NOT be ordered concurrently with option AMB or AMW</i>	Model 710 with no more than one disk	\$1,000.	\$18.

Other Options

#AL9	Factory select LAN AUI (ThickNet) configuration. <i>This option overrides default ThinNET Ethernet connection.</i>	External Transceiver	N/C	N/C.
#0DJ	HP-UX 8.07 Run-Time Instant Ignition, 2-user license <i>Pre-loaded and pre-configured HP-UX 8.07 Run-Time Environment.</i>	Requires at least 420MB disk	\$75.	



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HP Apollo 9000 Series 700

Factory Integrated Options

The Model 710 is available in both bundled and standard configurations. The bundled configurations consist of six pre-defined packages that were designed to satisfy the requirements of most customers. You will find that the bundles greatly simplify the ordering process and will help HP to expedite workstation shipments.

You may find however, that your specific product requirements are not met by these bundles. In that case you will need to choose the required options and have them integrated with one of the three available standard configurations. These options will be integrated by HP at the factory and delivered to the customer as a complete system. The Factory Integrated Options Matrix below is provided to help you configure such a system.

Of course, HP also offers a variety of add-on options for future installation at the customer's site. These options are made available to help the customer expand his system as his requirements grow.

Model 710 Factory Integrated Options Matrix
(Only available on Standard Configurations)

	Memory			Internal Storage					Other Options	
	Only one memory option may be ordered per workstation.			Up to two internal storage options are supported. A maximum of one option #AM0 and one removable media device is allowed per workstation.						Requires a 420MB disk (opt. #AMK)
	Opt. AN4 Add 8MB	Opt. AN8 Add 16MB	Opt. AND Add 48MB	Opt. AM0 210MB Disk	Opt. AMK 420MB Disk	Opt. AMB 1.4MB Floppy	Opt. AMW 2GB DDS Drive	Opt. AM8 600MB CD ROM	Opt. AL9 LAN-AUI	Opt. 0DJ HP-UX 8.07 Pre-load
A2208A 19" grayscale, 16MB, diskless (\$9,390)	\$1,000	\$2,000	\$6,000	\$2,000	\$2,500	\$500	\$2,500	\$1,000	N/C	\$75
A2210A 16" color, 16MB, diskless (\$11,390)	\$1,000	\$2,000	\$6,000	\$2,000	\$2,500	\$500	\$2,500	\$1,000	N/C	\$75
A2213A 19" color, 16MB, diskless (\$12,390)	\$1,000	\$2,000	\$6,000	\$2,000	\$2,500	\$500	\$2,500	\$1,000	N/C	\$75



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HP Apollo 9000 Series 700

Model 710 PA-RISC Workstations

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 710 ADD-ON - OPTIONS (customer or field installed)

MEMORY

A2216A	8MB RAM add-on. (Consisting of 4 x 2MB boards) See System Configuration Diagram for maximum memory constraints	Model 710	\$1,000.	\$4.
A2217A	16MB RAM add-on. (Consisting of 4 x 4MB boards) See System Configuration Diagram for maximum memory constraints	Model 710	\$2,000.	\$8.
A2218A	32MB RAM add-on. (Consisting of 4 x 8MB boards) See System Configuration Diagram for maximum memory constraints	Model 710	\$4,000.	\$16.

INTERNAL STORAGE

A2219A	210MB internal SCSI-II Disk Drive	Model 710 diskless systems	\$2,000.	\$14.
A2221A	420MB internal SCSI-II Disk Drive	Model 710 with no more than one disk	\$2,500.	\$24.
A2223A	Add 1.4MB 3.5" Floppy Disk Drive	Model 710 with no more than one disk	\$500.	\$5.
A2224A	Add 600MB 5.25" CD ROM Drive	Model 710 with no more than one disk	\$1,000.	\$18.
A2274A	Add 2GB DDS Tape Drive	Model 710 with no more than one disk and HP-UX 8.07	\$2,500.	\$26.
#AHR Upgrade kit for Model 710 (must order)			N/C	
A2275A	Add 4mm DDS-DC Tape Drive (with data compression)	Model 710 with no more than one disk and HP-UX 8.07	\$3,500.	\$29.
#AHR Upgrade kit for Model 710 (must order)			N/C	

GRAPHICS

B2156A	PowerShade 3D surfaces rendering software 1-user license-to-use	HP-UX 8.07	\$2,000.	
#UJ8 CD-ROM Certificate			N/C	
#UJ9 DDS (4mm DAT) tape			N/C	



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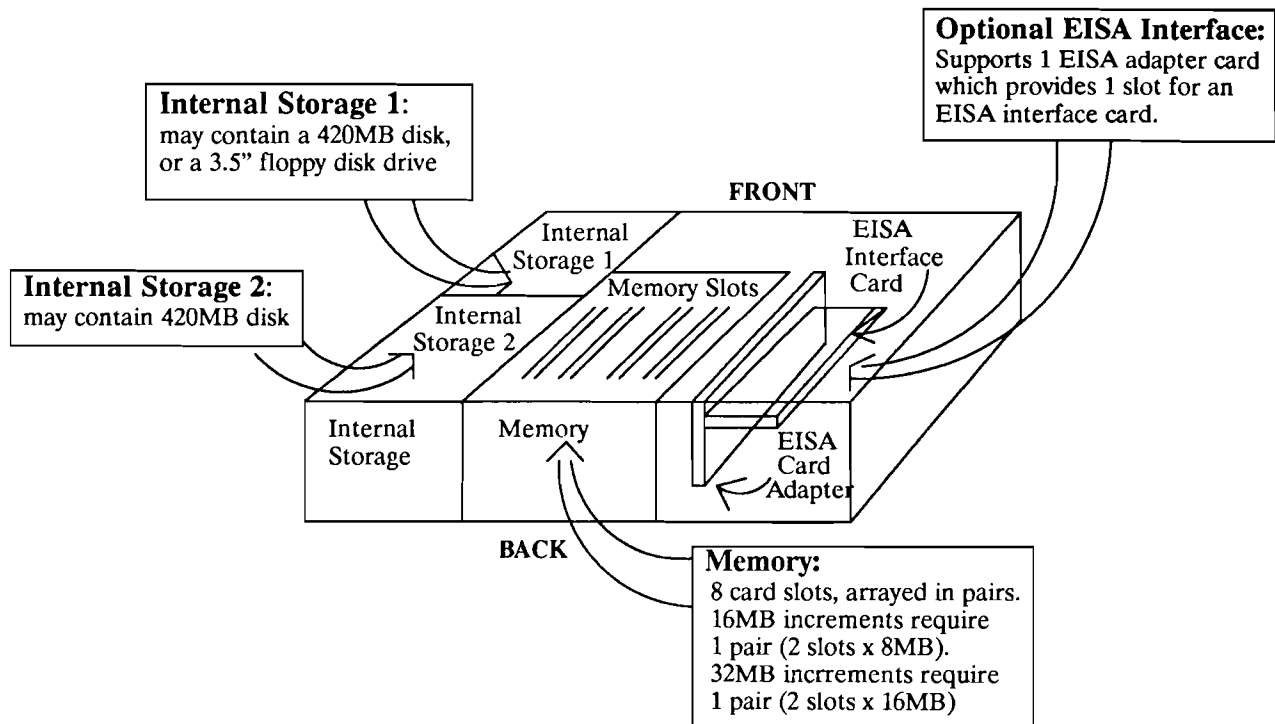
HP Apollo 9000 Series 700

Model 720 Desktop Workstations

System Standard Features

- 50MHz PA-RISC processor integral with 50MHz floating point processor
- delivers 59.5 SPECmarks, 57.9 MIPS, and 17.9 MFLOPS
- configurable with 16 to 128 MB main memory
- configurable with a maximum of 2 internal 3.5" storage devices
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- external SCSI II port (support for a total of up to 7 devices - including internal)
- supports up to 64GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with ThinLAN
- optional EISA bus (1 slot)
- auto selecting power supply 115V/230V
- operating environment: HP-UX 8.07 Run-Time, 2 user license-to-use
- documentation (Owner's Guides and General Usage manuals:
 - HP VUE User's Guide, Using the X windows System,
 - A Beginner's Guide to HP-UX, Finding Information (HP-UX)).
- stand and labels for optional deskside use

Model 720 System Options Diagram





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HP Apollo 9000 Series 700

MODEL 720 PA-RISC WORKSTATIONS/SERVER

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Standard Configurations (support Factory Integrated Options)

Model 720 GRX Grayscale Workstations

A1929A	GRX, 19" grayscale monitor, 16MB RAM, one 420MB internal SCSI II disk Available options AN8, AND, 112, AMH, AMB ALD, ALE, ALF, ALG, AL9, 0DJ	Localization Kit See page A-5	\$14,890.	\$60.
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Model 720 CRX Color 2D/3D Workstations

A1933A	CRX, 19" color monitor, 16MB RAM, one 420MB internal SCSI II disk Available options AN8, AND, 112, AMH, AMB ALD, ALE, ALF, ALG, AL9, 0DJ	Localization Kit See page A-5	\$21,390.	\$74.
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Model 720 CRX-24 Color 2D/3D Workstations

A2263A	24 plane CRX graphics, 19" color monitor, 16MB RAM, one 420MB internal SCSI II disk Available options AN8, AND, 112, AMH, AMB ALD, ALE, ALF, ALG, AL9, 0DJ	Localization Kit See page A-5	\$28,390.	\$104.
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Model 720 CRX-24Z Color 2D/3D Workstations

A2264A	24 plane CRX graphics with accelerator and Z-buffer, 19" color monitor, 16MB RAM, one 420MB internal SCSI II disk Available options AN8, AND, 112, AMH, AMB ALD, ALE, ALF, ALG, AL9, 0DJ	Localization Kit See page A-5	\$36,390.	\$129.
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HP Apollo 9000 Series 700

MODEL 720 FACTORY INTEGRATED OPTIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Memory

#AN8	Add 16MB memory for a total of 32MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options AND or 112.</i>		\$2,400.	\$8.
#AND	Add 48MB memory for a total of 64MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options AN8 or 112.</i>		\$7,200.	\$24.
#112	Add 112MB memory for a total of 128MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options AN8 or AND.</i>		\$16,800.	\$56.

Internal Storage

#AMH	Add Second 420MB SCSI II disk drive, factory integrated. <i>Maximum of one option AMH per workstation. May NOT be ordered concurrently with option AMB.</i>	Model 720 system w/single 420MB internal disk.	\$2,500.	\$24.
#AMB	Add 1.4MB 3.5" SCSI II floppy disk drive, factory integrated	Model 720 with one disk	\$500.	\$5.

EISA Options

#ALD	Add one EISA Interface slot, factory integrated. <i>Maximum of one option ALD per workstation.</i>		\$1,500.	N/C
#ALE	Add EISA SCSI II Host Adapter <i>May not be ordered with #ALF or #ALG.</i>	Model 720 w/EISA upgrade	\$1,195.	N/C
#ALF	Add EISA HP-IB Host Adapter <i>May not be ordered with #ALE or #ALG.</i>	Model 720 w/EISA upgrade	\$1,195.	N/C
#ALG	Add EISA LAN/9000 <i>May not be ordered with #ALE or #ALF.</i>	Model 720 w/EISA upgrade	\$1,395.	N/C

Other Options

#AL9	Factory select LAN AUI configuration. This option overrides default ThinNET Ethernet connection.	External Transceiver	N/C	N/C
#0DJ	HP-UX 8.07 Run-Time Instant Ignition, 2-user Pre-loaded and pre-configured HP-UX 8.07 Run-Time Environment.		\$75.	



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HP Apollo 9000 Series 700

Model 720 Factory Integrated Configuration Matrix

	Memory			Internal Storage		EISA Interface Options				Other Options	
	Only one memory option may be ordered per workstation.			No more than one of each available option may be ordered per workstation.		All EISA interface cards (options ALE, ALF, and ALG) require the optional EISA slot (ALD), and no more than one interface card may be ordered per workstation.				No more than one of each available option may be ordered per workstation.	
Option Standard Configuration	AN8 Add 16MB	AND Add 48MB	112 Add 112MB	AMH 420MB Disk	AMB 1.4MB Floppy	ALD EISA Slot	ALE EISA SCSI II Adapter	ALF EISA HP-IB Adapter	ALG EISA LAN Card	AL9 LAN-AUI	0DJ HP-UX Preload
A1929A GRX 19" grayscale, 16MB, 420MB (\$14,890)	\$2,400	\$7,200	\$16,800	options may not be ordered together \$2,500 : \$500		\$1,500	\$1,195	\$1,195	\$1,395	N/C	\$75
A1933A CRX 19" color, 16MB, 420MB (\$21,390)	\$2,400	\$7,200	\$16,800	options may not be ordered together \$2,500 : \$500		\$1,500	\$1,195	\$1,195	\$1,395	N/C	\$75
A2263A CRX-24 19" color, 16MB, 420MB (\$28,390)	\$2,400	\$7,200	\$16,800	options may not be ordered together \$2,500 : \$500		\$1,500	\$1,195	\$1,195	\$1,395	N/C	\$75
A2264A CRX-24Z 19" color, 16MB, 420MB (\$36,390)	\$2,400	\$7,200	\$16,800	options may not be ordered together \$2,500 : \$500		\$1,500	\$1,195	\$1,195	\$1,395	N/C	\$75



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HP Apollo 9000 Series 700

MODEL 720 ADD-ON OPTIONS (customer or field installed)

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
MEMORY				
A1979A	16MB RAM add-on See System Configuration Diagram for maximum memory constraints	Model 720	\$2,400.	\$8.
INTERNAL STORAGE				
A1983A	Second 420MB SCSI II Disk Drive	Model 720 w/single internal disk only	\$2,500.	\$24.
A1984A	Add 1.4MB 3.5" Floppy Disk Drive	Model 720 w/single internal disk only	\$500.	\$5.
GRAPHICS				
A1454A	24 bit Z buffer and graphics accelerator	Series 700 CRX-24	\$10,000.	\$25.
B2156A	PowerShade 3D surfaces rendering software 1-user license-to-use	HP-UX 8.07	\$2,000.	
#UJ8	CD-ROM Certificate		N/C	
#UJ9	DDS (4mm DAT) tape		N/C	
EISA INTERFACE OPTIONS				
A1986A	EISA Upgrade Kit (Optional on Model 720) Adds one EISA interface slot	Model 720 w/out EISA	\$1,500.	N/C
25525A	EISA SCSI II Host Adapter Connects SCSI II fast/differential devices through EISA slot. Includes a differential, low density terminator.	Model 720 w/EISA upgrade	\$1,195.	N/C
25560A	EISA HP-IB Host Adapter Connects HP-IB peripherals through EISA slot.	Model 720 w/EISA upgrade	\$1,195.	N/C
25567A	EISA LAN/9000 for Series 700 provides second Ethernet LAN. Includes LAN hardware built in ThinMAU and BNC connector.	Model 720 w/EISA upgrade	\$1,395.	N/C
#740	Add ThickMAU, tap, and 6 M AUI cable		\$395.	N/C
#840	Add EtherTwist MAU and 1 M cable		\$195.	N/C
J2156A	FDDI/9000 for Series 700 provides FDDI single attach station.	Model 720 w/EISA upgrade, HP-UX 8.07	\$4,495.	\$11.
#1AW	Delete Software Right-to-Use and documentation		-\$995.	
J2159A	X.25/9000 for Series 700 provides network access via X.25.	Model 720 w/EISA upgrade, HP-UX 8.07	\$4,200.	\$9.
#1AT	RS 232 Cable		N/C	
#1AU	V35 Cable		N/C	
#1AW	Delete Software Right-to-Use and documentation		-\$1,200.	
J2165A	IEEE 802.5 Token Ring 9000 for Series 700 provides direct connection to any IEEE 802.5 Token Ring network.	Model 720 w/EISA upgrade, HP-UX 8.07	\$1,595.	N/C
#UJ9	Provides software on DDS (4mm DAT) tape		N/C	
#0B0	Delete manual set		-\$36.	



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HP Apollo 9000 Series 700

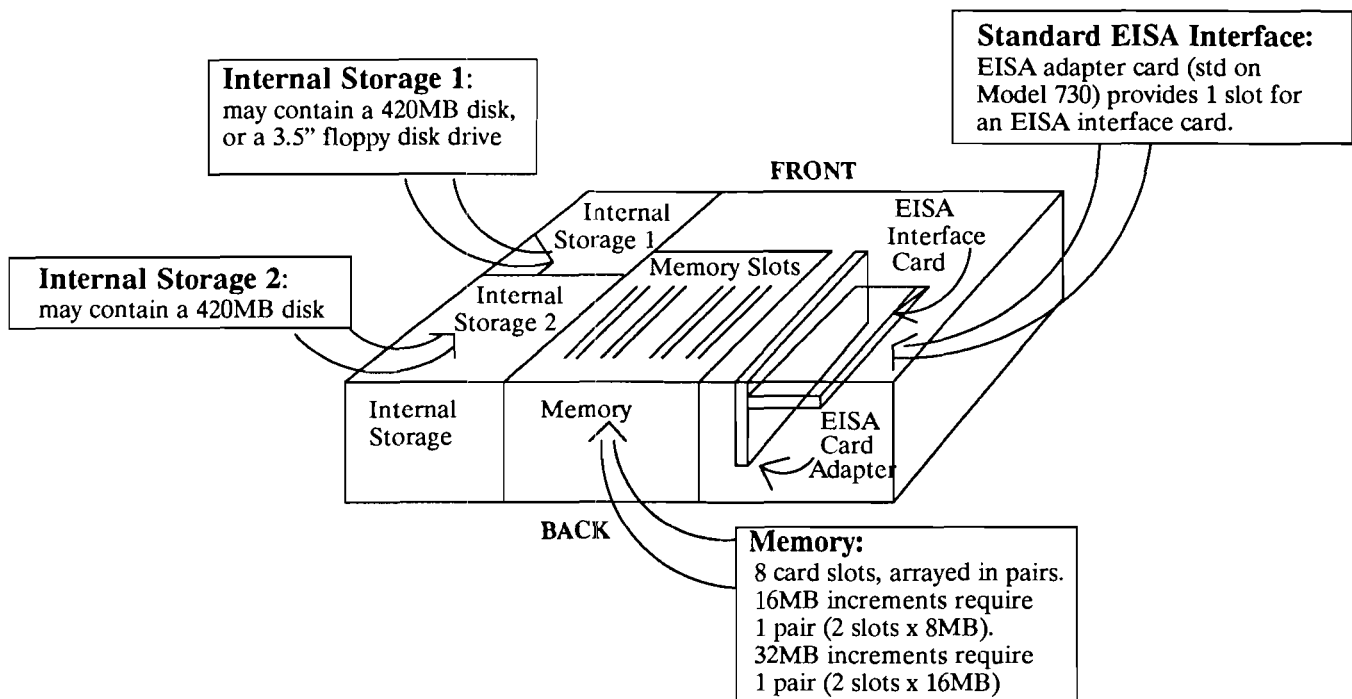
Model 730 Performance Desktop Workstations

System Standard Features

- 66MHz PA-RISC processor integral with 66MHz floating point processor
- delivers 76.8 SPECmarks, 76.7 MIPS, and 23.7 MFLOPS
- configurable with 32 to 128 MB main memory
- configurable with a maximum of 2 internal 3.5" storage devices
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- external SCSI II port (support for a total of up to 7 devices - including internal)
- supports up to 64GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with ThinLAN
- includes EISA bus (1 slot)
- auto selecting power supply 115V/230V
- operating environment: HP-UX 8.07 Run-Time, 2 user license-to-use
- documentation (Owner's Guides and General Usage manuals:
 HP VUE User's Guide, Using the X windows System,
 A Beginner's Guide to HP-UX, Finding Information (HP-UX)).
- stand and labels for optional deskside use



Model 730 System Options Diagram





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HP Apollo 9000 Series 700

MODEL 730 WORKSTATIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Standard Configurations (support Factory Integrated Options)

Model 730 GRX Grayscale Workstations

A1946B	GRX, 19" grayscale monitor, 32MB RAM, one 420MB internal SCSI II disk Available optionsANN, ANY, AMH, AMB, ALE, ALF, ALG, AL9, 0DJ	Localization Kit See page A-5	\$23,290.	\$66.
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Model 730 CRX Color 2D/3D Workstations

A1950B	CRX, 19" color monitor, 32MB RAM, one 420MB internal SCSI II disk Available optionsANN, ANY, AMH, AMB, ALE, ALF, ALG, AL9, 0DJ	Localization Kit See page A-5	\$29,790.	\$80.
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Model 730 CRX-24 Color 2D/3D Workstations

A2265B	24 plane CRX graphics, 19" color monitor, 32MB RAM, one 420MB internal SCSI II disk Available optionsANN, ANY, AMH, AMB, ALE, ALF, ALG, AL9, 0DJ	Localization Kit See page A-5	\$36,790.	\$110.
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Model 730 CRX-24Z Color 2D/3D Workstations

A2266B	24 plane CRX graphics with accelerator and Z-buffer, 19" color monitor, 32MB RAM, one 420MB internal SCSI II disk Available optionsANN, ANY, AMH, AMB, ALE, ALF, ALG, AL9, 0DJ	Localization Kit See page A-5	\$44,790.	\$135.
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Model 730 TVRX Color 3D Workstations

A2276B	TurboVRX T4, 19" color monitor, 32MB RAM, one 420MB internal SCSI II disk Available optionsANN, ANY, AMH, AMB, ALE, ALF, ALG, AL9, 0DJ	Localization Kit See page A-5	\$101,790.	\$290.
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Systems Division

HP Apollo 9000 Series 700

MODEL 730 FACTORY INTEGRATED OPTIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Memory

#ANN	Add 32MB memory for a total of 64MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered together with option ANY.</i>		\$4,800.	\$16.
#ANY	Add 96MB memory for a total of 128MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered together with options ANN.</i>		\$14,400.	\$48.

Internal Storage

#AMH	Add Second 420MB SCSI II disk drive, factory integrated. <i>Maximum of one option AMH per workstation. May NOT be ordered concurrently with option AMB.</i>	Model 730 system w/single 420MB internal disk.	\$2,500.	\$24.
#AMB	Add 1.4MB 3.5" SCSI II floppy disk drive, factory integrated	Model 730 with one disk	\$500.	\$5.

EISA Options

#ALE	Add EISA SCSI II Host Adapter <i>May not be ordered with #ALF or #ALG.</i>	Model 730	\$1,195.	N/C
#ALF	Add EISA HP-IB Host Adapter <i>May not be ordered with #ALE or #ALG.</i>	Model 730	\$1,195.	N/C
#ALG	Add EISA LAN/9000 <i>May not be ordered with #ALE or #ALF.</i>	Model 730	\$1,395.	N/C

Other Options

#AL9	Factory select LAN AUI configuration. <i>This option overrides default ThinNET Ethernet connection.</i>	External Transceiver	N/C	N/C
#0DJ	HP-UX 8.07 Run-Time Instant Ignition, 2-user <i>Pre-loaded and pre-configured HP-UX 8.07 Run-Time Environment.</i>		\$75.	



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*Workstation
Systems Division*

HP Apollo 9000 Series 700

Model 730 Factory Integrated Configuration Matrix

	Memory		Internal Storage		EISA Interface Options			Other Options	
	No more than one memory option may be ordered per workstation.		No more than one internal storage option may be ordered per workstation.		No more than one interface card may be ordered per workstation.			No more than one of each available option may be ordered per workstation.	
Option Standard Configuration	ANN Add 32MB	ANY Add 96MB	AMH 420MB Disk	AMB 1.4MB Floppy	ALE EISA SCSI II Adapter	ALF EISA HP-IB Adapter	ALG EISA LAN Card	AL9 LAN- AUI	0DJ HP-UX Preload
A1946B GRX 19" grayscale, 32MB, 420MB (\$23,290)	\$4,800	\$14,400	options may not be ordered together \$2,500	\$500	\$1,195	\$1,195	\$1,395	N/C	\$75
A1950B CRX 19" color, 32MB, 420MB (\$29,790)	\$4,800	\$14,400	options may not be ordered together \$2,500	\$500	\$1,195	\$1,195	\$1,395	N/C	\$75
A2265B CRX-24 19" color, 32MB, 420MB (\$36,790)	\$4,800	\$14,400	options may not be ordered together \$2,500	\$500	\$1,195	\$1,195	\$1,395	N/C	\$75
A2266B CRX-24Z 19" color, 32MB, 420MB (\$44,790)	\$4,800	\$14,400	options may not be ordered together \$2,500	\$500	\$1,195	\$1,195	\$1,395	N/C	\$75
A2276B TVRX T4 19" color, 32MB, 420MB (\$101,790)	\$4,800	\$14,400	options may not be ordered together \$2,500	\$500	\$1,195	\$1,195	\$1,395	N/C	\$75



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*Workstation
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HP Apollo 9000 Series 700

MODEL 730 ADD-ON OPTIONS (customer or field installed)

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
MEMORY				
A1979A	16MB RAM add-on See System Configuration Diagram for maximum memory constraints	Model 730	\$2,400.	\$8.
INTERNAL STORAGE				
A1983A	Second 420MB SCSI II Disk Drive	Model 730 w/single internal disk only	\$2,500.	\$24.
A1984A	Add 1.4MB 3.5" Floppy Disk Drive	Model 730 w/single internal disk only	\$500.	\$5.
GRAPHICS				
A1454A	24 bit Z buffer and graphics accelerator	Series 700 CRX-24	\$10,000.	\$25.
B2156A	PowerShade 3D surfaces rendering software 1-user license-to-use	HP-UX 8.07	\$2,000.	
#UJ8	CD-ROM Certificate		N/C	
#UJ9	DDS (4mm DAT) tape		N/C	
EISA INTERFACE OPTIONS				
25525A	EISA SCSI II Host Adapter Connects SCSI II fast/differential devices through EISA slot. Includes a differential, low density terminator.	Model 730	\$1,195.	N/C
25560A	EISA HP-IB Host Adapter Connects HP-IB peripherals through EISA slot.	Model 730	\$1,195.	N/C
25567A	EISA LAN/9000 for Series 700 provides second Ethernet LAN. Includes LAN hardware built in ThinMAU and BNC connector.	Model 730	\$1,395.	N/C
#740	Add ThickMAU, tap, and 6 M AUI cable		\$395.	N/C
#840	Add EtherTwist MAU and 1 M cable		\$195.	N/C
J2156A	FDDI/9000 for Series 700 provides FDDI single attach station	Model 730 HP-UX 8.07	\$4,495.	\$11.
#1AW	Delete Software Right-to-use and documentation		-\$995.	
J2159A	IEEE 802.5 X.25/9000 for Series 700 provides network access via X.25	Model 730 HP-UX 8.07	\$4,200.	\$9.
#1AT	RS 232 Cable		N/C	
#1AU	V.35 Cable		N/C	
#1AW	Delete Software Right-to-use and documentation		-\$1,200.	
J2165A	IEEE 802.5 Token Ring 9000 for Series 700 provides direct connection to any IEEE 802.5 Token Ring network	Model 730 HP-UX 8.07	\$1,595.	N/C
#UJ9	Provides software on DDS (4mm DAT) tape		N/C	
#0B0	Delete manual set		-\$36.	



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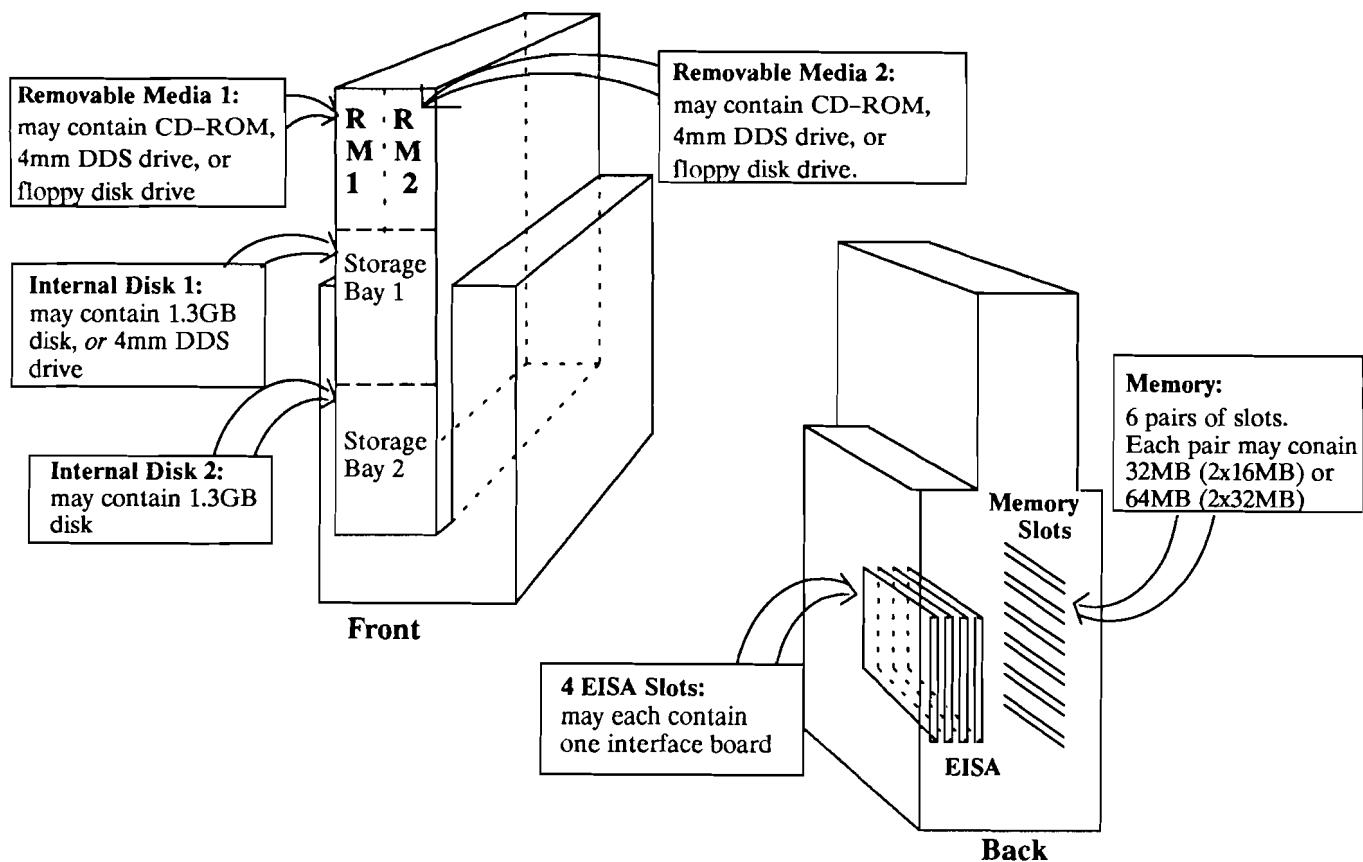
Workstation
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HP Apollo 9000 Series 700

Model 750 Deskside Workstations System Standard Features

- 66MHz PA-RISC processor integral with 66MHz floating point processor
- delivers 77.5 SPECmarks, 76.7 MIPS, and 23.7 MFLOPS
- configurable with 64 to 384 MB main memory
- configurable with maximum of 2 full height 5 1/4" SCSI II disks and 2 half height or 1 full height removable media SCSI II devices
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- external SCSI II port (support for a total of up to 7 devices - including internal)
- supports up to 236GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with ThinLAN
- includes EISA bus (4 slots)
- auto selecting power supply 115V/230V
- operating environment: HP-UX 8.07 Run-Time, 2 user license-to-use
- documentation (Owner's Guides and General Usage manuals:
 HP VUE User's Guide, Using the X windows System,
 A Beginner's Guide to HP-UX, Finding Information (HP-UX)).

Model 750 System Options Diagram





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HP Apollo 9000 Series 700

MODEL 750 WORKSTATIONS/SERVERS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Standard Configurations (support Factory Integrated Options)

Model 750 CRX Color 2D/3D Workstations

A2278B	CRX, 19" color monitor, 64MB RAM, one 1.3GB SCSI II disk Available options ANQ, ANW, ANX, AMG, AMB, AMX, AM8, ALE, ALF, ALG, ALQ AL9, 0DJ	localization kit See page A-5	\$52,890.	\$98.
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Model 750 CRX-24 Color 2D/3D Workstations

A2267B	24-plane CRX graphics, 19" color monitor, 64MB RAM, one 1.3GB SCSI II disk Available options ANQ, ANW, ANX, AMG, AMB, AMX, AM8, ALE, ALF, ALG, ALQ AL9, 0DJ	localization kit See page A-5	\$59,890.	\$128.
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Model 750 CRX-24Z Color 2D/3D Workstations

A2268B	24-plane CRX graphics with accelerator and Z-Buffer, 19" color monitor, 64MB RAM, one 1.3GB SCSI II disk Available options ANQ, ANW, ANX, AMG, AMB, AMX, AM8, ALE, ALF, ALG, ALQ AL9, 0DJ	localization kit See page A-5	\$67,890.	\$153.
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Model 750 TVRX Color 3D Workstations

A2281B	TurboVRX T4, 19" color monitor, 64MB RAM, one 1.3GB SCSI II disk Available options ANQ, ANW, ANX, AMG, AMB, AMX, AM8, ALE, ALF, ALG, ALQ AL9, 0DJ	localization kit See page A-5	\$124,890.	\$308.
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Systems Division

HP Apollo 9000 Series 700

MODEL 750 FACTORY INTEGRATED OPTIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Memory

#ANQ	Add 64MB memory for a total of 128MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options ANW, or ANX.</i>		\$9,600.	\$32.
#ANW	Add 192MB memory for a total of 256MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options ANQ, ANX.</i>		\$28,800.	\$96.
#ANX	Add 320MB memory for a total of 384MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options ANQ, ANW.</i>		\$48,000.	\$160.

Internal Storage

#AMG	Add 1.3GB SCSI II disk drive, factory integrated. <i>May NOT order more than one per workstation.</i>	Model 750 w/single 1.3GB disk	\$6,000.	\$26.
#AMX	Add 4mm 3.5" DDS tape drive with data compression, <i>factory integrated. May NOT be ordered concurrently with option AMB</i>	Model 750 with available half height bay see system diagram	\$3,500.	\$29.
#AM8	Add 600MB SCSI II CD-ROM, factory integrated.	Model 750 with available half height bay see system diagram	\$1,000.	\$21.
#AMB	Add 1.4MB 3.5" SCSI II floppy disk drive, <i>factory integrated. May NOT be ordered together with option AMX</i>	Model 750 with available half height bay see system diagram	\$500.	\$5.

EISA Options

(EISA option cards may be ordered up to the system maximum of four.)

#ALE	Add EISA SCSI II Host Adapter	Model 750	\$1,195.	N/C
#ALF	Add EISA HP-IB Host Adapter	Model 750	\$1,195.	N/C
#ALG	Add EISA LAN/9000	Model 750	\$1,395.	N/C
#ALQ	Add EISA FDDI/9000	Model 750	\$4,495.	\$11.

Other

#AL9	Factory select LAN AUI configuration. <i>This option overrides default ThinNET Ethernet connection.</i>	External transceiver required.	N/C	N/C
#0DJ	HP-UX 8.07 Run-Time Instant Ignition, 2-user <i>Pre-loaded and pre-configured HP-UX 8.07 Run-Time Environment.</i>		\$75.	



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HP Apollo 9000 Series 700

Model 750 Factory Configuration Matrix

	Memory			Internal Storage				EISA Interface Options				Other Options	
	Only one memory option may be ordered per workstation.			No more than one of each available option may be ordered per workstation.				More than one of each EISA option card may be ordered, up to system maximum of four. No more than two FDDI (ALQ).				No more than one of each option per workstation.	
Option Standard Configuration	ANQ Add 64MB	ANW Add 192MB	ANX Add 320MB	AMG 1.3GB Disk	AM8 600MB CDROM	AMX 4mm 3.5" DDS	AMB 1.4MB Floppy	ALE EISA SCSI II Adapter	ALF EISA HP-IB Adapter	ALG EISA LAN Card	ALQ EISA FDDI	AL9 LAN- AUI	0DJ HP-UX Preload
A2278B CRX 19" color, 64MB, 1.3GB (\$52,890)	\$9,600	\$28,800	\$48,000	\$6,000	\$1,000	options may not be ordered together		\$1,195	\$1,195	\$1,395	\$4,495	N/C	\$75
A2267B CRX-24 19" color, 64MB, 1.3GB (\$59,890)	\$9,600	\$28,800	\$48,000	\$6,000	\$1,000	options may not be ordered together		\$1,195	\$1,195	\$1,395	\$4,495	N/C	\$75
A2268B CRX-24Z 19" color, 64MB, 1.3GB (\$67,890)	\$9,600	\$28,800	\$48,000	\$6,000	\$1,000	options may not be ordered together		\$1,195	\$1,195	\$1,395	\$4,495	N/C	\$75
A2281B TVRX T4 19" 3D clr 64MB, 1.3GB (\$124,890)	\$9,600	\$28,800	\$48,000	\$6,000	\$1,000	options may not be ordered together		\$1,195	\$1,195	\$1,395	\$4,495	N/C	\$75



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*Workstation
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HP Apollo 9000 Series 700

MODEL 750 ADD-ON OPTIONS (customer or field installed)

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
MEMORY				
A2513A	64MB RAM add-on See System Configuration Diagram for maximum memory constraints	Model 750	\$9,600.	\$32.
INTERNAL STORAGE				
<i>(See System Configuration Diagram for maximum internal storage constraints)</i>				
A1989A	Add 1.3GB internal SCSI II Disk Drive	Model 750 w/single internal disk	\$6,000.	\$26.
A1985A	Add 600MB CD-ROM Drive	Model 750 with available half height bay see system diagram	\$1,000.	\$21.
A2274A	Add 2GB 4mm DDS Tape Drive	Model 750 with available bay see system diagram HP-UX 8.07	\$2,500.	\$26.
	#AHS Upgrade kit for Model 750 (must order)		N/C	
A2275A	Add 4mm DDS Tape Drive with data compression	Model 750 with available bay see system diagram HP-UX 8.07	\$3,500.	\$29.
	#AHS Upgrade kit for Model 750 (must order)		N/C	
A1968A	Add 1.4MB 3.5" Floppy Disk Drive	Model 750 with available half height bay see system diagram	\$500.	\$5.
GRAPHICS				
A1454A	24 bit Z buffer and graphics accelerator	Series 700 CRX-24	\$10,000.	\$25.
B2156A	PowerShade 3D surfaces rendering software 1-user license-to-use	HP-UX 8.07	\$2,000.	
	#UJ8 CD-ROM Certificate		N/C	
	#UJ9 DDS (4mm DAT) tape		N/C	
EISA INTERFACE OPTIONS				
25525A	EISA SCSI II Host Adapter Connects SCSI II fast/differential devices through EISA slot. Includes a differential, low density terminator.	Model 750	\$1,195.	N/C
25560A	EISA HP-IB Host Adapter Connects HP-IB peripherals through EISA slot.	Model 750	\$1,195.	N/C
25567A	EISA LAN/9000 for Series 700 provides second Ethernet LAN. Includes LAN hardware built in ThinMAU and BNC connector.	Model 750	\$1,395.	N/C
#740	Add ThickMAU, tap, and 6 M AUJ cable		\$395.	N/C
#840	Add EtherTwist MAU and 1 M cable		\$195.	N/C
J2156A	FDDI/9000 for Series 700 provides FDDI single attach station	Model 750 HP-UX 8.07	\$4,495.	\$11.
	#1AW Delete Software Right-to-use and documentation		-\$995.	



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HP Apollo 9000 Series 700

MODEL 750 ADD-ON OPTIONS (customer or field installed)

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
EISA INTERFACE OPTIONS				
J2159A	X.25/9000 for Series 700 provides network access via X.25.	Model 750 HP-UX 8.07	\$4,200.	\$9.
#1AT	RS 232 Cable		N/C	
#1AU	V.35 Cable		N/C	
#1AW	Delete Software Right-to-use and documentation		-\$1,200.	
J2165A	IEEE 802.5 Token Ring 9000 for Series 700 provides direct connection to any IEEE 802.5 Token Ring network.	Model 750 HP-UX 8.07	\$1,595.	N/C
#UJ9	Provides software on DDS (4mm DAT) tape		N/C	
#0B0	Delete manual set		-\$36.	



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HP Apollo 9000 Series 700

SERIES 700 SERVERS

The Series 700 systems are now available in configurations designed to meet the customer's needs for shared resource computing. These pre-configured systems are packaged in such a way as to provide optimal server support for diskless workstations, X-terminals, printers/plotters as well as Wide Area and Local Area Networking and communications gateways. These systems are also intended to provide network shared functionality such as batch computational power for the workstation user and file archival services for systems administrators.

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Series 700 Server Model 750

A2283A	64MB RAM, one 1.3GB internal SCSI II disk, internal 4mm DDS DAT tape drive with data compression, CD-ROM and 4 EISA Slots Available options ANQ, ANW, ANX, ALE, ALG, ALF, ALQ, AMG, AL9, 0DJ, 900, 901, 902, 903, 906, 912, 917, 918, 919	Must order power cord See below. <i>Requires terminal or graphics subsystem</i>	\$53,990.	\$148.
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Series 700 Server Model 730

A2284A	64MB RAM, two 420MB internal SCSI II disks, CD-ROM 4mm DDS DAT tape drive and 1 EISA Slot Available options ANQ, ALE, ALF, ALG, AL9, 0DJ, 900, 901, 902, 903, 906, 912, 917, 918, 919	Must order power cord See below. <i>Requires terminal or graphics subsystem</i>	\$35,240.	\$162.
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Series 700 Server Model 720

A2286A	32MB RAM, one 420MB internal SCSI II disk, CD-ROM 4mm DDS DAT tape drive and 1 EISA Slot Available options ANN, ANY AMH, AMB, ALE, ALF, ALG, AL9, 0DJ, 900, 901, 902, 903, 906, 912, 917, 918, 919	Must order power cord See below. <i>Requires terminal or graphics subsystem</i>	\$21,840.	\$116.
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(MUST ORDER WITH EVERY SERIES 700 SERVER except Optical Storage Server)

Server Power Cord and Documentation options #900 through #919 (below) N/C

#900	United Kingdom	#912	Denmark
#901	Australia, New Zealand	#917	Republic of South Africa, India
#902	European	#918	Japan
#903	North America, Taiwan, Korea	#919	Israel
#906	Switzerland		



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HP Apollo 9000 Series 700

SERIES 700 SERVERS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Series 700 Server Model 720 Optical Storage Server

Note: The means for listing and describing the Optical Storage Server is through the use of a Structured Solution Package or SSP. The SSP is an order processing tool which allows the sales representative to configure and quote a bundled system using a menu of options. The configuration shown below is such a bundle and as such does not allow the addition of incremental functionality provided to the other Series 700 Server products.

C2455A	HP Optical Storage Server SSP, consisting of an HP Apollo 9000 720 Server, 2GB disk, 20GB Optical Autochanger plus Storage Management Software for migration/demigration of files. The C2455A is a complete SSP bundle. Total price of the bundle is the sum of all components.	\$80,843.
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*Note: HP Personnel, please refer to the latest SSP ordering menu for complete ordering details. This menu is in the OP Field Guide (U.S. only) or available from your OP co-ordinator.
For more information about C2455A SSP contact
USA 303-229-2125
USA 408-447-4245
Europe, Asia-Pacific (+49) 703114-3014*

Series 700 Server Enterprise Management Station

B1040A	HP 9000 Model 720, 19" color monitor, 1280x1024 high resolution color graphics, 32 MB Ram, internal 420 disk drive, external CD-ROM drive with SCSI cable and terminator, IIP VUE and instant ignition pre-loaded and pre-configured, OpenView TCP/IP Agent, IIP OpenView Network Node Manager pre-loaded and ready to run.	\$48,000.
1FH	AT-style American language keyboard	N/C
1FJ	HP-Style American language keyboard	N/C

HP Apollo 9000 Series 700

Series 700 Server FACTORY INTEGRATED OPTIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Series 700 Server Model 750 Memory

#ANQ	Add 64MB memory for a total of 128MB, factory integrated. <i>Maximum of one factory integrated memory option per server. May NOT be ordered concurrently with options ANW or ANX.</i>	Server 750	\$9,600.	\$32.
#ANW	Add 192MB memory for a total of 256MB, factory integrated. <i>Maximum of one factory integrated memory option per server. May NOT be ordered concurrently with options ANQ or ANX.</i>	Server 750	\$28,800.	\$96.
#ANX	Add 320MB memory for a total of 384MB, factory integrated. <i>Maximum of one factory integrated memory option per server. May NOT be ordered concurrently with options ANQ or ANW.</i>	Server 750	\$48,000.	\$160.

Series 700 Server Model 730 Memory

#ANQ	Add 64MB memory for a total of 128MB, factory integrated. <i>Maximum of one factory integrated memory option per server.</i>	Server 730	\$9,600.	\$32.
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Series 700 Server Model 720 Memory

#ANN	Add 32MB memory for a total of 64MB, factory integrated. <i>Maximum of one factory integrated memory option per server. May NOT be ordered concurrently with option ANY.</i>	Server 720	\$4,800.	\$16.
#ANY	Add 96MB memory for a total of 128MB, factory integrated. <i>Maximum of one factory integrated memory option per server. May NOT be ordered concurrently with option ANN</i>	Server 720	\$14,400.	\$48.

Series 700 Server Model 720/730/750 EISA Options

One EISA option card may be ordered for Server 720 and 730. A maximum of four allowed on the Server 750.

#ALE	Add EISA SCSI II Host Adapter	Server 700	\$1,195.	N/C
#ALF	Add EISA HP-IB Host Adapter	Server 700	\$1,195.	N/C
#ALG	Add EISA 802.3 LAN/9000	Server 700	\$1,395.	N/C
#ALQ	Add EISA FDDI LAN/9000	Server 750	\$4,495	\$11.

Series 700 Server Model 720/730/750 Internal Storage

AMH	Second 420MB SCSI II Disk Drive factory integrated (May not be ordered with AMB)	Server 720 Only	\$2,500.	\$24.
AMB	Add 1.4MB 3.5" SCSI II Floppy Disk Drive (May not be ordered with AMH)	Server 720 Only	\$500.	\$5.
AMG	Second 1.3GB SCSI II Disk Drive factory integrated (Order max. of 1 for a total of 2 in system)	Server 750 Only	\$6,000.	\$26.



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HP Apollo 9000 Series 700

Series 700 Server FACTORY INTEGRATED OPTIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Other

#AL9	Factory select LAN AUI configuration. This option overrides default ThinNET Ethernet connection.	External transceiver required.	N/C	N/C
#0DJ	HP-UX 8.07 Run-Time Instant Ignition, 2-user Pre-loaded and pre-configured HP-UX 8.07 Run-Time Environment.		\$75.	

SERVER ADD-ON OPTIONS (customer or field installed)

Series 700 Server Model 750 MEMORY

A2513A	64MB RAM add-on	Server 750	\$9,600.	\$32.
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Series 700 Server Model 720/730 MEMORY

A1979A	16MB RAM add-on	Server 720/730	\$2,400.	\$8.
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INTERNAL STORAGE

A1984A	Add 1.4MB 3.5" Floppy Disk Drive	Server 720 only	\$500.	\$8.
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TERMINALS

(Required for Server operation)

C1001A	HP 700/92 Terminal Amber Display 14" screen, 8 pages of memory, 80/132 column, printer PORT and ANSI 3.64 with VT220 compatibility <i>Must specify localization option.</i>	<i>Requires cable 24542G, (order from HP Apollo Direct Channel) localization option</i>	\$895.	\$4.
C1001G	HP 700/92 Terminal Green Display 14" screen, 8 pages of memory, 80/132 column, printer PORT and ANSI 3.64 with VT220 compatibility <i>Must specify localization option.</i>	<i>Requires cable 24542G (order from HP Apollo Direct Channel) localization option</i>	\$895.	\$4.
C1001W	HP 700/92 Terminal Soft White Display 14" screen, 8 pages of memory, 80/132 column, printer PORT and ANSI 3.64 with VT220 compatibility <i>Must specify localization option.</i>	<i>Requires cable 24542G (order from HP Apollo Direct Channel) localization option</i>	\$895.	\$4.



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HP Apollo 9000 Series 700

Series 700 Server FACTORY INTEGRATED OPTIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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TERMINAL LOCALIZATION KIT

(MUST ORDER WITH EVERY TERMINAL)

Localized options #ABA through #AB1 (below)

N/C

#ABA	U.S. English	#ABK	ICON	#ABW	Belgian Dutch	#ABC	French Canadian
#ABM	Latin Spanish	#ABX	Finnish	#ABD	German	#ABN	Norwegian
#ABY	Danish	#ABE	European	#ABP	Swiss German	#ABZ	Italian
#ABF	European French	#ABQ	Swiss French	#AB0	Thiwan	#ABH	Dutch
#ABS	Swedish	#AB1	Korean	#ABJ	Katakana	#ABU	UK



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HP Apollo 9000 Series 700

MULTI-MONITOR PA-RISC WORKSTATIONS

Series 700 can now provide graphics output from more than one monitor. These systems function as a single workstation, accepting user input from a single keyboard, but delivering graphics output through two or more monitors. Dual CRX graphics are available on the Model 720, Model 730, and Model 750. Multi-Monitor functionality is not available on the Model 710. The following systems are structured just like other workstations in the Series 700: a fully functional standard configuration which can be enhanced and expanded with either factory installed options or add-on products. HP-UX 8.07 software is required on multi-monitor workstations.

Standard Configurations

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Model 720 Dual CRX Color 2D/3D Workstations

A2279A	Dual CRX board, two 19" color monitors, 16MB RAM, one 420MB disk. <i>NOTE: Must specify power cord option</i> Available options AN8, AND, 112, AMH, AMB ALD, ALE, ALF, ALG, AL9 900, 901, 902, 903, 906, 912, 917, 918, 919	Localization Kit See page A-5	\$30,390.	\$113.
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Model 730 Dual CRX Color 2D/3D Workstations

A2277B	Dual CRX board, two 19" color monitors, 32MB RAM, one 420MB disk <i>NOTE: Must specify power cord option</i> Available options ANN, ANY, AMH, AMB, ALE, ALF, ALG, AL9 900, 901, 902, 903, 906, 912, 917, 918, 919	Localization Kit See page A-5	\$38,790.	\$111.
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Model 750 Dual CRX Color 2D/3D Workstations

A2282B	Dual CRX board, two 19" color monitors, 64MB RAM, one 1.3GB disk <i>NOTE: Must specify power cord option</i> Available options ANQ, ANW, ANX, AMG, AMB, AMX, AM8, ALE, ALF, ALG, ALQ AL9,, 900, 901, 902, 903, 906, 912, 917, 918, 919	Localization Kit See page A-5	\$61,890.	\$137.
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(MUST ORDER WITH EVERY SERIES 700 Multi-Monitor Workstation)

Server Power Cord and Documentation options #900 through #919 (below)			N/C
#900	United Kingdom	#912	Denmark
#901	Australia, New Zealand	#917	Republic of South Africa, India
#902	European	#918	Japan
#903	North America, Taiwan, Korea	#919	Israel
#906	Switzerland		

MULTI-MONITOR FACTORY INTEGRATED OPTIONS

Factory integrated options for the Multi-monitor standard configurations are the same as those for other workstations of the same model. To find the option numbers and their pricing appropriate to one of the standard configurations above, please refer to the listings in the corresponding workstation section of this guide.

HP Apollo 9000 Series 700

OTHER MULTI-MONITOR CONFIGURATIONS

Two other multi-monitor configurations are supported, but are not available factory integrated. They can be configured with the products listed below in the field.

Model 750 Quad CRX

To configure a Model 750 *Quad CRX* (Two *Dual CRX* graphics boards with four 19" color monitors), order the Model 750 *Dual CRX* (A2282B) and any other Model 750 factory integrated options you wish. Then order the *Dual CRX* upgrade (A2269A) listed below. Remember that the upgrade will not be installed at the factory. *Quad CRX* configurations are not available on any other model of the Series 700.

Model 750 Dual CRX-24

To configure a Model 750 *Dual CRX-24* (Two CRX-24 graphics boards with two 19" color monitors), order the Model 750 CRX-24 (A2267B) and any other Model 750 factory integrated options you wish. Then order the *Dual CRX-24* upgrade (A2270A) listed below. Remember that the upgrade will not be installed at the factory. *Dual CRX-24* configurations are not available on any other model of the Series 700.

MULTI-MONITOR UPGRADES

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
A2269A	Upgrades a Model 750 <i>Dual CRX</i> workstation configuration to a <i>Quad CRX</i> (four monitor) configuration. Includes <i>Dual CRX</i> graphics card and two 19" color monitors <i>NOTE: Must specify power cord option</i> 900, 901, 902, 903, 906, 912, 917, 918, 919	Model 750 <i>Dual CRX</i> or Series 700 server.	\$17,000.	\$63.
A2270A	Upgrades a Model 750 <i>CRX-24</i> workstation configuration to a <i>Dual CRX-24</i> (two monitor) configuration. Includes CRX-24 graphics card and a 19" color monitor.	Model 750 <i>CRX-24</i> or Series 700 server.	\$15,000.	\$54.

(MUST ORDER POWER CORD WITH EVERY A2269A and A2270A)

Power Cord and Documentation options #900 through #919		(below)	N/C
#900	United Kingdom	#912	Denmark
#901	Australia, New Zealand	#917	Republic of South Africa, India
#902	European	#918	Japan
#903	North America, Taiwan, Korea	#919	Israel
#906	Switzerland		

MULTI-MONITOR ADD-ON OPTIONS (customer or field installed)

Add-on products for Multi-monitor configurations are the same as those for other workstations of the same model. To find the add-on product numbers and their pricing appropriate to one of the standard configurations above, please refer to the listings in the corresponding workstation section of this guide.



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UPGRADES, EXTERNAL STORAGE & PERIPHERALS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
CPU UPGRADES				
A1957A	Upgrades a Model 720 to a Model 730 (board upgrade)	Model 720 with EISA upgrade	\$9,000.	\$6.
A2647A	Model 705 to Model 710 CPU upgrade Exchange CPU must be returned to factory.	Model 705 color 16" or 19"	\$3,500.	
GRAPHICS UPGRADES				
98768A	Upgrades a Series 700 Server configuration to a CRX accelerated color graphics workstation Includes graphics interface and 1280x1024, 72Hz monitor	Model 720, 730, or 750	\$9,000.	\$24.
A2269A	Upgrades a Model 750 Dual CRX workstation configuration to a Quad CRX (four monitor) configuration. Includes Dual CRX graphics card and two 19" color monitors. Note: May also be used to upgrade Model 720, 730, and 750 servers to Dual CRX workstation.	Model 750 Dual CRX or Series 700 server.	\$17,000.	\$63.
A2270A	Upgrades a Model 750 CRX-24 workstation configuration to a Dual CRX-24 (two monitor) configuration. Includes CRX-24 graphics card and a 19" color monitor. Note: May also be used to upgrade Model 720, 730, and 750 servers to CRX-24 workstations.	Model 750 CRX-24 or Series 700 server.	\$15,000.	\$54.
A2271A	Upgrades a Series 700 CRX workstation configuration to CRX-24 accelerated color graphics. Includes CRX-24 graphics board. Return of CRX graphics board required.	Model 720, 730, or 750	\$10,000.	\$54.
A2272A	Upgrades a Series 700 PVRX workstation configuration to CRX-24 accelerated color graphics. Includes graphics interface and 1280x1024, 72Hz monitor. Return of PVRX graphics board and 60 Hz monitor required.	Model 720, 730, or 750	\$9,000.	\$22.
98767A	Upgrades a Series 700 Turbo VRX T2 to a T4 configuration. Includes dual transform engine.	Model 720, 730, or 750 w/ TurboVRX T2	\$20,000.	\$80.
98757A	Upgrades TurboVRX graphics subsystem for a Series 400 to TurboVRX graphics subsystem for a Series 700	Series 400 TurboVRX graphics subsystem	\$10,000.	N/C
#001	For Series 400 Turbo VRX T1 to Series 700 Turbo VRX T2		\$10,000.	\$45.
#002	For Series 400 Turbo VRX T2 to Series 700 Turbo VRX T2		N/C	N/C
#003	For Series 400 Turbo VRX T3 to Series 700 Turbo VRX T4		\$10,000.	\$40.
MEMORY UPGRADES				
A2521A	Upgrades Model 720 to 96MB memory Includes revised CPU which permits use of 2X memory.	Model 720	\$14,400.	
A2522A	Upgrades Model 720 to 128MB memory Includes revised CPU which permits use of 2X memory.	Model 720	\$19,200.	
A2531A	Upgrades Model 730 to 96MB memory Includes revised CPU which permits use of 2X memory.	Model 730	\$14,400.	
A2532A	Upgrades Model 730 to 128MB memory Includes revised CPU which permits use of 2X memory.	Model 730	\$19,200.	
A2533A	Upgrades Model 750 to 256MB memory	Model 750	\$38,400.	
A2534A	Upgrades Model 750 to 384MB memory	Model 750	\$57,600.	



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UPGRADES, EXTERNAL STORAGE & PERIPHERALS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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EXTERNAL STORAGE

Note: When ordering external storage you must order the appropriate cables and terminators.

C2482A	Model 1350SX disk storage system with 1.3GB fast/differential SCSI II disk drive. <i>Note: To add 1 or 2 more 1.3GB disks, order upgrade(s) C2492A</i>	Series 700 with EISA SCSI II Adapter and SCSI cable see cable chart	\$6,400.	\$26.
C2492A	1.3GB fast/differential SCSI II disk upgrade for 1350SX <i>Adds 1.3GB SCSI II disk to C2482A. May order 1 or 2 per 1350SX storage system. See Configuration section of this guide, page 115</i>	C2482A disk storage systems	\$6,000.	\$21.

Installation Options for upgrades to Model 1350SX

(must order one per upgrade):

#0D1 Factory installation into C2482A disk storage system

#0DF Customer installation into C2482A

#0DG Field service installation into C2482A

N/C

\$100.

\$200.

C2217T	Model 1350SE Mass Storage System with 1.3GB SCSI II drive. <i>Note: To add disk or removable media, order upgrades listed below.</i> <i>(NOTE: To receive manuals order localization option.)</i> <i>See Configuration section of this guide, page 115</i>	Series 700, SCSI cable and terminator see cable chart	\$6,200	\$19.
C2474T	1.3GB SCSI II disk upgrade for 1350SE, <i>(NOTE: To receive manuals order localization option.)</i>	C2217T, install option	\$5,800.	\$17.
C2297T	2.0GB 3.5" SCSI II DDS Tape upgrade for 1350SE <i>(NOTE: To receive manuals order localization option.)</i>	C2217T, install option	\$2,650.	\$27.
C2298T	2.0GB 3.5" DDS Tape w/data compression upgrade for 1350SE <i>(NOTE: To receive manuals order localization option.)</i>	C2217T, install option	\$3,650	\$27.
C2293T	600MB CD-ROM upgrade for 1350SE <i>(NOTE: To receive manuals order localization option.)</i>	C2217T, install option	\$1,250.	\$19.
C2294T	650MB Rewritable Optical upgrade for 1350SE Installation Options for upgrades to Model 1350SE (must order one per upgrade): <i>(NOTE: To receive manuals order localization option.)</i>	C2217T, install option	\$5,400	\$20.
	#0D1 Factory installation into C2217T disk storage system		N/C	
	#0DF Customer installation into C2217T		\$100.	
	#0DG Field service installation into C2217T		\$200.	

SCSI Disk Arrays: *(Note: Disk Arrays require HP-UX 8.07.)*

C2425JK	Model 420SA 5x420MB SCSI II disk array for Series 700, includes RAID 0, 0/1, 3, 5, and independent mode utility package.	Series 700 with EISA SCSI II adapter and SCSI cable (see chart), must order localization	\$20,575.	\$70.
C2472J	one 420MB SCSI II disk upgrade to Model 420SA <i>See Configuration section of this guide, page 115</i> Installation Options for upgrade to Model 420SA (must order one):	C2425JK	\$2,750.	\$13.
	#0D1 Factory installation into C2425JK disk storage system		N/C	
	#0DF Customer installation into C2425JK		\$100.	
	#0DG Field service installation into C2425JK		\$200.	



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Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service	
SCSI Disk Arrays: <i>(Note: Disk Arrays require HP-UX 8.07.</i>					
C2427JK	Model 1350SA 5x1.3GB SCSI II disk array for Series 700, includes RAID 0, 0/1, 3, 5, and independent mode utility package. <u>(see Configuration section of this guide, page 115)</u>	Series 700 with EISA SCSI II adapter and SCSI cable (see chart) - must order localization	\$37,975.	\$90.	
<i>Note: To add 1.3GB disk order C2474J</i>					
C2474J	one 1.3GB SCSI II disk upgrade to Model 1350SA Installation Options for upgrade to Model 1350SA (must order one): #0D1 Factory installation into C2427JK disk array #0DF Customer installation into C2427JK disk array #0DG Field service installation into C2427JK disk array	C2427JK	\$6,350 N/C \$100. \$200.	\$16.	
SCSI Standalone Removable Media:					
A1999A	600MB CD-ROM Drive standalone	Series 700, SCSI cable and terminator see cable chart Must specify power cord	\$1,300. N/C	\$21.	
Power Cord options #900 through #919 (below)					
#900	United Kingdom	#903	North America, Taiwan, Korea	#917	Republic of South Africa, India
#901	Australia, New Zealand	#906	Switzerland	#918	Japan
#902	European	#912	Denmark	#919	Israel
C1520B	2.0GB 4mm DDS Tape standalone includes SCSI cable (K2296), terminator and documentation	Series 700, HP-UX 8.07	\$3,150. N/C	\$27.	
C1521B	4mm DDS Tape with data compression standalone includes SCSI cable (K2296), terminator and documentation	Series 700, HP-UX 8.07	\$4,150 N/C	\$33.	
C1701A	650MB Magneto-Optical Drive standalone	Series 700, SCSI cable - see cable chart	\$5,835.	\$24.	
C1700A	20GB Magneto-Optical autochanger	Series 700, SCSI cable - see cable chart	\$37,200.	\$111.	
C1704A	57GB Magneto-Optical autochanger Note: must select one of Opt. 001 or 002; and one of Opt. 231 or 241	Series 700, HP-UX 8.07, SCSI cable - see cable chart	\$78,900.	\$250.	
C1705A	94GB Magneto-Optical autochanger Note: must select one of Opt. 001 or 002; and one of Opt. 231 or 241	Series 700, HP-UX 8.07, SCSI cable - see cable chart	\$107,300.	\$316.	
7980S	1/2" 9-track Tape Drive Note: must select one of Opt. 100, 133, 135, or 1A4; and one of Opt. 200 or 800	Series 700, HP-UX 8.07, SCSI cable - see cable chart	\$18,000.	\$48.	



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Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Terminals

HP 700/RX RISC X Stations

Standard Features

- RISC X Window processor base unit
- Built in DRAM and VRAM
- Monitor
- PC style Keyboard and 3-button mouse
- Monitor cable, power cords, manuals

C2701B	HP 700/RX MI Monochrome X Station Base Unit <i>90,000 x stones, 4MB DRAM, .25MB VRAM</i> Available options 1A2, AN7, W03		\$2,695.	\$4.
C2704A	HP 700/RX Ci Color X Station Base Unit <i>52,000 x stones, 4MB DRAM, 1MB VRAM</i> Available options 1A2, AN7, W03		\$2,995.	\$4.
C2709A	HP 700/RX Ca High Resolution Color X Station Base Unit <i>86,000 x stones, 4MB DRAM, 2MB VRAM</i> Available options 1A2, AN7, W03		\$3,895.	\$4.
C2702B	HP 700/RX 19Mi 19" Monochrome X Station <i>19" 1280x1024 display, 90,000 x stones, 4MB DRAM, .25MB VRAM</i> Available options 1A2, AN7, W03		\$3,295.	\$14.
C2705A	HP 700/RX 14Ci 14" Color X Station <i>14" 1024x768 multissynch display, 52,000 x stones, 4MB DRAM, 1MB VRAM</i> Available options 1A2, AN7, W03		\$3,495.	\$7.
C2706A	HP 700/RX 16Ci 16" Color X Station <i>16" 1024x768 75Hz display, 52,000 x stones, 4MB DRAM, 1MB VRAM</i> Available options 1A2, AN7, W03		\$4,495.	\$12.



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Terminals

C2710A	HP 700/RX 16Ca 16" Color X Station 16" 1024x768 75Hz display, 86,000 x stones, 4MB DRAM, 1MB VRAM Available options 1A2, AN7, W03		\$5,195.	\$12.
C2711A	HP 700/RX Model 19Ca 19" Color X Station 19" 1024x1024 72Hz display, 86,000 x stones, 4MB DRAM, 2MB VRAM Available options 1A2, AN7, W03		\$5,995.	\$28.
C2716A	HP 700/RX Server Tape-HP PA-RISC		\$495.	
	#AAH Provides software on DDS format tape		N/C	
	#AA0 Provides software on 1/4" cartridge tape		N/C	
	#AA1 Provides software on 1/2" 1600 BPI tape		N/C	

X STATION FACTORY INTEGRATED OPTIONS

#1A2	Delete PC style keyboard, mouse, and keyboard cable	-\$60.
#AN7	Delete 2MB SIMM	-\$299.
#W03	Convert one year return to HP warranty to 90 day on-site	N/C

TERMINALS

C1001A	HP 700/92 Terminal Amber Display 14" screen, 8 pages of memory, 80/132 column, printer PORT and ANSI 3.64 with VT220 compatibility <i>Must specify localization option.</i>	<i>Requires cable 24542G, (order from HP Apollo Direct Channel) localization option</i>	\$895.	\$4.
C1001G	HP 700/92 Terminal Green Display 14" screen, 8 pages of memory, 80/132 column, printer PORT and ANSI 3.64 with VT220 compatibility <i>Must specify localization option.</i>	<i>Requires cable 24542G (order from HP Apollo Direct Channel) localization option</i>	\$895.	\$4.
C1001W	HP 700/92 Terminal Soft White Display 14" screen, 8 pages of memory, 80/132 column, printer PORT and ANSI 3.64 with VT220 compatibility <i>Must specify localization option.</i>	<i>Requires cable 24542G (order from HP Apollo Direct Channel) localization option</i>	\$895.	\$4.

TERMINAL LOCALIZATION KIT

(MUST ORDER WITH EVERY TERMINAL)

Localized options #ABA through #AB1 (below)

N/C

#ABA	U.S. English	#ABK	ICON	#ABW	Belgian Dutch	#ABC	French Canadian
#ABM	Latin Spanish	#ABX	Finnish	#ABD	German	#ABN	Norwegian
#ABY	Danish	#ABE	European	#ABP	Swiss German	#ABZ	Italian
#ABF	European French	#ABQ	Swiss French	#AB0	Taiwan	#ABH	Dutch
#ABS	Swedish	#AB1	Korean	#ABJ	Katakana	#ABU	UK



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Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
LASER PRINTERS				
C2007A	LaserJet IIP Plus printer 4ppm with PCL4, Centronics parallel I/O only.	Requires cable see cable chart	\$1,249.	\$10.
33481A	LaserJet IIIP printer 4ppm, RS232 Centronics interfaces.	Requires cable see cable chart	\$1,595.	\$10.
33459A	LaserJet IIID printer 8ppm with dual tray duplex, RS232/422, Centronics interfaces.	Requires cable see cable chart	\$3,595.	\$23.
33491A	LaserJet IIISi printer 17ppm with dual 500-sheet, RS232/422, Centronics interfaces.	Requires cable see cable chart	\$5,495.	\$47.
33449A	HP LaserJet III printer with RS232-C and Centronics parallel interfaces.	Requires cable see cable chart	\$2,395.	\$23.
COLOR INK JET PRINTERS				
3630A	HP PaintJet color ink jet printer for text and graphics. <i>Must specify option #001 or #004</i>	Requires cable see cable chart	\$1,095.	\$5.
#001	HP PaintJet color graphics printer with RS232-C interface.		N/C	
#004	HP PaintJet color graphics printer with Centronics interface.		N/C	
C1602A	HP PaintJet XL color graphics printer. User's guide, set up guide, supplies and power cord included. <i>Must specify option #1AX</i>	Requires cable see cable chart	\$2,595.	\$6.
#1AX	HP PaintJet XL color graphics printer with RS232-C and Centronics parallel interfaces.		N/C	
IMPACT PRINTERS				
2562C	Line Matrix printer <i>Must order option #049 or #053</i>	Requires cable see cable chart	\$5,777.	\$48.
#049	RS232-C interface subsystem.		\$207.	
#053	Centronics interface subsystem.		\$200.	
2563C	Impact printer - 420 lpm <i>Must order option #049 or #053</i>	Requires cable see cable chart	\$8,717.	\$52.
#049	RS232-C interface subsystem.		\$207.	
#053	Centronics interface subsystem.		\$200.	
2564C	Impact printer - 840 lpm <i>Must order option #049 or #053</i>	Requires cable see cable chart	\$13,873.	\$84.
#049	RS232-C interface subsystem.		\$248.	
#053	Centronics interface subsystem.		\$200.	
2566C	Impact printer - 1200 lpm <i>Must order option #049 or #053</i>	Requires cable see cable chart	\$27,554.	\$198.
#049	RS232-C interface subsystem.		\$398.	
#053	Centronics interface subsystem.		\$385.	
2567C	Impact printer - 1600 lpm <i>Must order option #049 or #053</i>	Requires cable see cable chart	\$34,835.	\$209.
#049	RS232-C interface subsystem.		\$398.	
#053	Centronics interface subsystem.		\$385.	



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Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
PLOTTERS				
C1625A	HP 7600 Series Model 250 , monochrome electrostatic plotter. <i>Must specify localization option. For HP-IB connectivity an HP-IB interface board is required.</i>	Requires cable see cable chart	\$16,900.	\$85.
C1627A	HP 7600 Series Model 255 , monochrome electrostatic plotter. <i>Must specify localization option. For HP-IB connectivity an HP-IB interface board is required.</i>	Requires cable see cable chart	\$26,900.	\$107.
C1620A	HP 7600 Series Model 355 , color electrostatic plotter. <i>Must specify localization option. For HP-IB connectivity an HP-IB interface board is required.</i>	Requires cable see cable chart	\$49,900.	\$214.
C1633B	A0/E size monochrome InkJet plotter. <i>Supports HP-GL/2 and HPRTL. Must specify localization option. For HP-IB connectivity an HP-IB interface board is required.</i>	Requires cable see cable chart	\$10,995.	\$30.
7440A	HP ColorPro plotter for A-size. <i>Must specify option #001.</i>	Requires cable see cable chart	\$1,395.	\$4.
#001	RS232-C interface.		N/C	
7475A	HP 7475A plotter for A/B-size. <i>Must specify option #001.</i>	Requires cable see cable chart	\$1,995.	\$8.
#001	RS232-C interface.		N/C	
7550B	HP 7550 Plus plotter for A/B-size. <i>Must specify option #005.</i>	Requires cable see cable chart	\$4,495.	\$16.
#005	Serial Interface		\$300.	
7570A	HP DraftPro plotter for C/D-size, 8-pen plotter. RS232-C interface standard.	Requires cable see cable chart	\$3,795.	\$11.
7575A	HP DraftPro DXL plotter for A through D-size, 8-pen plotter. RS232-C interface standard.	Requires cable see cable chart	\$4,595.	\$11.
7576A	HP DraftPro EXL plotter for A through E-size, 8-pen plotter. RS232-C interface standard.	Requires cable see cable chart	\$5,995.	\$11.
7595C	HP DraftMaster SX Plus plotter High performance A through E-size, 8-pen plotter. Single sheet feeder. RS232-C interface standard.	Requires cable see cable chart	\$7,495.	\$24.
7596C	HP DraftMaster RX plotter High performance A through E-size, 8-pen plotter. Roll or sheet feed. RS232-C interface standard.	Requires cable see cable chart	\$9,495.	\$24.
7599B	HP DraftMaster MX plotter High performance A through E-size, 8-pen plotter. Roll or sheet feed. Four RS232-C ports and 20-megabyte hard disk standard.	Requires cable see cable chart	\$10,995.	\$28.



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HP-HIL DEVICES (HP-UX)

46084A	HP-HIL ID Module.		\$200.	N/C
46085A	HP-HIL Control Dial Module. 9 user definable RPG knobs		\$1,450.	N/C
46086A	HP-HIL button box with 32 keys		\$965.	N/C
46021A	HP-HIL U.S. Keyboard. For use with HP-HIL interface. Keyboard cable included when ordering with a system or terminal. When ordered alone a 46020-60001 must also be added.		\$155.	N/C
C1492A	PC-AT Keyboard		TBD	
46060B	HP-HIL 3 button mouse		\$180.	N/C
M1309A	HP-HIL 3 button Trackball input device.		\$513.	N/C
46087C	HP-HIL Digitizer, ANSI A/ISO A4 size. Includes tip-switch stylus.		\$875.	\$6.
46088C	HP-HIL Digitizer, ANSI B/ISO A3 size. Includes tip-switch stylus.		\$1,405.	\$6.
46090C	HP-HIL Digitizer, ANSI A/ISO A4 size. Includes 4-button cursor with crosshair.		\$875.	\$6.

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CABLES

SCSI II Cables

CAUTION: SCSI II cables and terminators for connecting external peripherals to Series 700 computers **MUST** be ordered separately. Failure to order these parts as needed will result in delivery of unusable systems.

Because of the variety of connectors used with SCSI II devices throughout the industry, and because we cannot have prior knowledge of cable lengths required for individual configurations at each site, neither Hewlett Packard Series 700 workstations nor (most) Hewlett Packard peripherals include SCSI II cables.

Cables are available from Hewlett Packard in all necessary combinations of connectors and in several lengths. The peripherals they connect and the specific cable types for each peripheral are detailed in Table 1 below.

Connectors

There are currently 2 SCSI II connector types recommended for use with the workstations and SCSI II peripherals listed in this guide:

1. The SCSI II connector recommended for attachment to Series 700 computers is a High Density Thumb Screw connector.
2. Hewlett Packard supplied SCSI II peripheral devices supported under HP-UX are attached through the use of a Low Density Bail Lock connector.

The cable required depends upon the two devices being connected. The first external device will be connected to the SPU, so one connector of the cable should be the High Density Thumb Screw connector. **Connecting first SCSI II device:** The other connector for attachment to a Hewlett Packard supplied SCSI II peripheral device supported under HP-UX will be the Low Density Bail Lock type. **Connecting subsequent SCSI II devices:** If a second HP SCSI II device is attached to the first device, the cable must be one with low density connectors on both ends.

Cable Length

Choices of length are available for each cable type. Remember that the definition of single-ended SCSI II limits the total cable length of SCSI II cables to 6 meters, while differential SCSI II systems are limited to 25 meters.. This includes the length of cabling internal to each device.

Series 700 SCSI II Restrictions

1. Only Hewlett Packard approved SCSI II cables should be used with the Series 700 and any connected SCSI II devices.. Always use the shortest possible cable(s) for your configuration. Use of non-HP cables may result in significant problems with system operation.
2. If the Series 700 has internal disk drives, you must count them as SCSI II devices for device count and cable length.
3. It is recommended that when adding third party SCSI II devices, total cable length external to the Series 700 system unit (both external cables and cables internal to the devices) be limited to 4.6 meters (15 feet) for single-ended devices and 25 meters for differential devices.

Cables and Terminators for Connecting Series 700 to External Drives and Tapes

Device support changes more often than this manual can be updated. Please check with your local HP Sales office for a current support matrix. Remember that SCSI II cables are not shipped with the Series 700 workstations or with most HP SCSI II peripheral devices (check prerequisites for specific devices). It is recommended to order your cables through your HP Sales Representative at the time of purchase of your HP workstation. For added convenience cables may be ordered separately from your local HP Sales Office. For orders in the U. S. call 1-800-752-0900 to be referred to your local sales office.

The SCSI II bus must always be terminated. A terminator for the Series 700 workstations is shipped with both the Series 700 workstation and the EISA SCSI II host adapter card to be used where no external device is connected. If external devices are connected, the last device in the daisy-chain must be terminated. The proper terminator for the external device connector type must be used.

The table on the next page details the SCSI II cables and terminators used to connect and terminate the listed devices when used with the Series 700.



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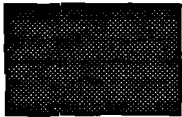
EISA Card Extension Cables

For Users of the HP 25525A EISA Card, these extender cables extend the reach of your K2296 or K2297:

<u>P/N</u>	<u>Length</u>	<u>Termination</u>	<u>US List</u>
C2900A	3M	M to F	\$ 100.
C2901A	5M	M to F	\$ 110.
C2902A	30M	M to F	\$ 150.
C2903A	20M	M to F	\$ 200.

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SCSI-II CABLING AND TERMINATORS FOR THE SERIES 700

CONNECTING		TO					
FROM	Series 6000 Model 1350SE Mass Stor. Sys. C2217T	Series 5300 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
Model 710, 720, 730, and 750 Standard SCSI-II Port *	Order Thumb Screw Cable K2296 .9 meter or K2297 1.5 meter Order Terminator: K2291 For last HP peripheral						
Model 720, 730, 750 EISA Fast SCSI-II Port (Differential) (part # 25525A)						Order Cable: K2296 .9 meter or 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 Order Terminator: K2291 For last HP peripheral						
Series 6300 Magneto optic devices C1700A, C1701A, C1704A, and C1705A							
Series 6400 Model 2000 4mm DDS Standalone C1520A, C1521A							
CD-ROM Standalone A1999A							
1/2" Magnetic Tape Drive 7980S	Order Cable: 92222A .5 meter or 92222B 1.0 meter or 92222C 2.0 meter 					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.



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HP Apollo 9000 Series 700

CABLES Cont'd

CAUTION: Cables for connecting hardcopy peripherals to Series 700 **MUST** be ordered separately. Failure to order these parts as needed will result in delivery of unusable peripherals.

RS232-C Interface

The primary cable for a serial connection to the HP/Apollo 9000 Series 700 is cable model #24542G which is 9-pin F/25-pin M serial printer/Plotter cable 3.0 m (9.9 ft.) The serial connection can be extended as follows:

- * 50 ft. Extension: cable model #92215F (25-pin F/25-pin M, 15.0m cable).
- * 100 ft. Extension: cable model #92215T (25-pin F/25-pin M, 30.0m cable).

Centronics Parallel Interface

The primary Centronics parallel interface cable is cable model #92284A which is a 36-pin M/25-pin M cable, 2.13m (6.6 ft.) long. This cable can be extended by an additional 9.9 ft. (3.0m) by using cable model #17355D (25-pin F/25-pin M straight-through cable.).

HP-IB Interface

The HP-IB interface is offered with only one primary cable with the suffix denoting the cable length. The cables for this connection are as follows:

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

DEVICE	INTERFACE	RS-232	Centronics	HP-IB
LaserJet Series: IID, IIP, III, IIID, and IIISi		24542G	92284A	Not Supported
PaintJet, PaintJet XL		24542G	92284A	Not Currently Supported
2562C, 2563C, 2564C, 2566C and 2567C		24542G	92284A	Not Currently Supported
All Pen Plotters except HP7550B		24542G	Not Supported	Not Currently Supported
HP7550B		24542H	Not Supported	Not Currently Supported
Electrostatic Plotters HP7600 Series 355, 255 and 250		24542G	92284A	10833A 10833B 10833C 10833D



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HP Apollo 9000 Series 700

- SOFTWARE INTRODUCTION -

ADDING SOFTWARE TO THE SERIES 700

HP-UX RUN TIME LICENSE

All Series 700 Workstations include a 2-user license-to-use for the HP-UX Run-Time environment. An 8-user license can also be ordered. The actual HP-UX software, however, must be explicitly loaded onto the workstation's disk by one of two methods:

NOTE: Two versions of HP-UX are orderable; HP-UX 8.05 and HP-UX 8.07. Be sure to order the correct version required by your specific applications and needs.

Method A

Order Instant Ignition. HP-UX 8.05/8.07 Run-Time Instant Ignition delivers the Run-Time environment pre-installed and preconfigured on the Series 700 disk. Ordering information on Instant Ignition is included in the hardware sections of this Price Guide.

Method B

Order the HP-UX software on either DDS format (4mm DAT) tape or CD-ROM media and load the software onto the disk.

No matter which method of loading HP-UX Run-Time is used above, at least one copy of HP-UX media is strongly recommended per workgroup (primarily for recovery, installation, and administration needs). All HP-UX media products include a core set of installation and administration documentation.

ORDERING HP SOFTWARE FOR THE SERIES 700

In addition to HP-UX, other HP software is frequently desired. To order Series 700 HP software, follow these general steps:

STEP 1: Order the appropriate HP-UX media product (one per workgroup recommended)

A. CD-ROM customers:

1. Order the CD-ROM media kit, B2358A (HP-UX 8.05) or B2826A (HP-UX 8.07). Option AAB is recommended to allow delivery of a pre-computed codeword. As an alternative, order option AAF and your customers will receive a CD-ROM entitlement certificate.
2. If an 8-user HP-UX environment is desired, also order B2353A with option UJ6 or UJ8.

B. DDS (Digital Audio Tape) customers:

1. If a 2 user HP-UX environment will suffice, order B2352A with option UJ7 or UJ9.
2. If an 8-user HP-UX environment is needed, order B2353A with option UJ7 or UJ9.

STEP 2: Order other software products required:

A. CD-ROM customers:

Order all desired products and be sure to select the no-charge CD-ROM option (#AAU/UJ6/UJ8) for each. This will allow delivery of a codeword to "unlock" all ordered products from the CD-ROM media kit (B2358A or B2826A). When ordering multiple licenses, the CD-ROM option #UJ6, UJ8 or AAU only needs to be selected once for each workgroup. For example, 10 Fortran licenses must be ordered to use Fortran on 10 workstations. However, one CD-ROM option selection is sufficient to allow the customer to install Fortran on all 10 workstations from the CD-ROM set (or optionally distribute the software over the network). The general rule is that one CD-ROM option selection is needed per product for each CD-ROM media kit. Also, note that **in order to receive the pre-computed codeword, the additional software, with CD-ROM option, must be ordered in the same order section as the CD media kit.** (For more details on the new CD-ROM ordering process, see the Field Training Manual for HP-UX Software on CD-ROM and the Field Training Manual for HP-UX 8.0.)

B. DDS (Digital Audio Tape) customers:

Order all desired products and select option #AAH, UJ7 or UJ9 for media. As with HP-UX, at least one copy of media for each product is recommended per workgroup.



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HP Apollo 9000 Series 700

- SOFTWARE INTRODUCTION Cont'd -

An Explanation of CD-ROM Software Distribution

Optional HP Software for the Series 700, like HP-UX, is available only on DDS (4mm DAT) Tape or CD-ROM. Ordering and distribution of software on DDS format tape is similar to the traditional HP-UX magnetic media options. The methods for ordering and installing HP software on CD-ROM are new, and need some explanation.

All HP software distributed on CD-ROM comes loaded on the discs included in **HP-UX Software on CD Media (B2358A or B2826A)**. Most can only be accessed using a special **codeword** which "unlocks" it. The basic 2-user HP-UX Run-Time and other free software are unlocked and immediately available on the CD media (B2358A or B2826A) when it is delivered. Access to additional software is provided through codewords. If you order CD media (B2358A or B2826A) with the HP-HIL ID module (option #AAB), and order additional HP software products through the CD-ROM certificate (option #UJ6, UJ8, or AAU) in the same section of the order, then the CD-ROM codeword is delivered with the shipment to provide access to the software products. The codeword is made up of elements specific to the CD-ROM disc, the HP-HIL ID module, and the additional software ordered. Since all these elements are available in this case, the codewords can be precomputed and available to unlock the software immediately upon delivery of the software products. Ordering option #AAB is strongly recommended to provide the convenience of the pre-computed codewords.

If you order the CD disc set without the HP-HIL ID module (option #AAF), a CD-ROM entitlement certificate for any additional software you order will be delivered. Instructions are provided on how to contact HP for necessary codeword. The process requires that the customer provide the "hardware ID", CD-ROM disc part numbers, and information from the CD-ROM entitlement certificates. This may be an existing HP-HIL ID module, a C1707A serial number, or the "SW ID" of the Series 700 SPU. This process is also used when ordering additional software on an order subsequent to the order for the CD media (no additional copy of the CD media is required). HP will provide the codeword within eight hours of a completed request.

Once the codeword is obtained for a software product, additional licenses for workstations in the same workgroup may be purchased without the CD certificate. The software may be installed over the network (through the "netdist" command), or locally installed at each workstation using the same hardware ID device, CD-ROM media, and codeword used for the original installation.

ORDERING DOCUMENTATION FOR THE SERIES 700

Documentation may be ordered in two formats: Hardcopy or CD-ROM.

To order documents on **CD-ROM**, order the **HP-UX Series 700 Documentation** base product (B2355A) and select option #0BC which delivers the documentation on CD-ROM and access software with 1-user license-to-use. Documentation on CD-ROM provides an easy-to-use interface with keyword search and browse capabilities and the ability to create custom bookshelves, bookmarks and notes. Multiple users can access the documentation across the local area network by purchasing additional user licenses, available in multiples of 4, through the 4-user add-on (option #UA2). As indicated in the Documentation table, shown later in this section, some documentation is not available on CD-ROM, order option #OBJ to receive these hardcopy manuals.

Hardcopy documents can be ordered in three ways: (1) as a document set option to the **HP-UX Series 700 Documentation** base product (B2355A), (2) as an option to a software license (option #OBJ), or (3) as an individual document from the HP Apollo Direct Channel or from HP DMK (Direct Marketing Division). To order the document sets, simply order the base product (B2355A) and the desired document set option. To order individual documents, see the Document part-number table at the back of this Software section.



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SOFTWARE

Product Number	Description	U.S. LIST \$
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SOFTWARE ON CD MEDIA

B2358A HP-UX 8.05 Software on CD Media.

Includes HP-UX 8.05 and related software products (as available) on CD-ROM media.

#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, Installing Peripherals, HP VUE configuration guide, and HP VUE System Administration manual. **\$595.**

#AAF CD Disc Set. Includes software on CD-ROM. Does not include HP-HIL ID module. Documentation included: Installing and Updating HP-UX, Installing Peripheral, HP VUE configuration guide, and HP VUE System Administration manual. **\$495.**

B2826A HP-UX 8.07 Software on CD Media.

Includes HP-UX 8.07 and related software products (as available) on CD-ROM media.

#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, Installing Peripherals, HP VUE configuration guide, and HP VUE System Administration manual. **\$595.**

#AAF CD Disc Set. Includes software on CD-ROM. Does not include HP-HIL ID module. Documentation included: Installing and Updating HP-UX, Installing Peripheral, HP VUE configuration guide, and HP VUE System Administration manual. **\$495.**

DOCUMENTATION

B2355A HP-UX 8.05/8.07 Documentation. Documentation is available on CD-ROM or in hardcopy form.

NOTE: All options include material for both HP-UX 8.05/8.07 versions.

#0BC Documentation on CD-ROM. Includes 1-user license-to-use. **\$795.**

#0BJ Hardcopy manuals which is not provided on CD-ROM option (#0BC) **\$150.**

#UA2 4-user add-on for CD-ROM Documentation. Provides license-to-use for 4 additional users on CD-ROM documentation access software. **\$395.**

#0BD General Usage. Includes hardcopy general user's guides for HP-UX, HP VUE, and X Window System. **\$130.**
NOTE: this set is shipped with each HP-UX workstation.

#0BE HP-UX System Administration and Installation. Includes hardcopy administration and installation manuals for HP-UX, networking, and HP VUE. **\$650.**

#0BF General Programming. Includes hardcopy manuals for assembler, device I/O, native language support and general HP-UX programming techniques. **\$325.**

#0BG HP-UX User's Guides. Includes hardcopy manual for UUCP, mail, text formatting/processing, shells and editors. **\$175.**

#0BL User Environment. Includes hardcopy programming manuals for X Toolkit, Intrinsics, Xlib, HP VUE and OSF/Motif environment. **\$695.**

#0BM Starbase. Includes hardcopy programming manuals for Starbase, Starbase Display List, and Radiosity . **\$975.**

#0BT C/ANSI C. Includes Hardcopy manuals for C/ANSI C and symbolic debugger. **\$195.**



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SOFTWARE

Product Number	Description	U.S. LIST \$
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HP-UX 8.05/8.07 RUN-TIME ENVIRONMENT

Note: A license-to-use for the 2-user HP-UX Run-Time Environment is bundled with all HP-UX workstations.

HP-UX Run-Time Environment includes HP-UX operating system, HP VUE, NFS, ARPA, Diskless, SAM, and run-time support for: X11, OSF/Motif environment, Starbase, Starbase Display List, NCS and NetLS.

Each of the localized products consists of localized messages for HP-UX Run-Time and HP VUE, localized documentation, NLIO (Native Language Input/Output) where necessary, and English HP-UX.

Software for these products is also available on CD-ROM media B2358A or B2826A. Complete documentation is available in B2355A.

B2352A HP-UX 8.05/8.07 Run-Time Environment, 2 user.

#UJ7	Provides HP-UX 8.05 software on DDS (4mm DAT) tape. Documentation included: Installing and Updating HP-UX, Installing Peripheral, HP VUE configuration guide, and HP VUE System Administration manual. For complete documentation see B2355A.	\$395.
#UJ9	Provides HP-UX 8.07 software on DDS (4mm DAT) tape. Documentation included: Installing and Updating HP-UX, Installing Peripheral, HP VUE configuration guide, and HP VUE System Administration manual. For complete documentation see B2355A.	\$395.

B2353A HP-UX 8.05/8.07 Run-Time Environment, 8 user.

		\$1,195.
#UJ6	CD-ROM certificate for HP-UX 8.05. Required to access software on CD-ROM media, B2358A.	N/C
#UJ7	Provides HP-UX 8.05 software on DDS (4mm DAT) tape. Documentation included: Installing and Updating HP-UX, Installing Peripheral, HP VUE configuration guide, and HP VUE System Administration manual. For complete documentation see B2355A.	\$395.
#UJ8	CD-ROM certificate for HP-UX 8.07. Required to access software on CD-ROM media, B2826A.	N/C
#UJ9	Provides HP-UX 8.07 software on DDS (4mm DAT) tape. Documentation included: Installing and Updating HP-UX, Installing Peripheral, HP VUE configuration guide, and HP VUE System Administration manual. For complete documentation see B2355A.	\$395.

HP-UX LOCALIZED 8.05 RUN-TIME ENVIRONMENT

B2387A Japanese HP-UX Run-Time Environment, 2 user.

		\$605.
#AAH	Provides software on DDS (4mm DAT) tape. Includes: Installing and Updating HP-UX, and Peripheral Installation Guide. Refer to B2355A for complete system administration and installation documentation.	\$395.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media, B2358A.	N/C
#0HG	Tape upgrade HP-UX 8.05 to localized version.	\$300.

B2315A Japanese Documentation.

		N/C
#0BE	Hardcopy System Administration Documentation	\$780.



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SOFTWARE Cont'd

Product Number	Description	U.S. LIST \$
HP-UX LOCALIZED 8.05 RUN-TIME ENVIRONMENT		
B2395A	Korean HP-UX Run-Time Environment, 2 user.	\$605.
#AAH	Provides software on DDS (4mm DAT) tape. Includes: Installing and Updating HP-UX, and Peripheral Installation Guide. Refer to B2355A for complete system administration and installation documentation.	\$395.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media, B2358A.	N/C
#0HG	Tape upgrade HP-UX 8.05 to localized version.	\$300.
B2396A	German HP-UX 8.05 Run-Time Environment, 2 user.	N/C
#AAH	Provides software on DDS (4mm DAT) tape. Includes: Installing and Updating HP-UX, and Peripheral Installation Guide. Refer to B2355A for complete system administration and installation documentation.	\$395.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media, B2358A.	\$100.
#0HG	Tape upgrade HP-UX 8.05 to localized version.	\$300.
B2397A	French HP-UX 8.05 Run-Time Environment, 2 user.	N/C
#AAH	Provides software on DDS (4mm DAT) tape. Includes: Installing and Updating HP-UX, and Peripheral Installation Guide. Refer to B2355A for complete system administration and installation documentation.	\$395.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media, B2358A.	\$100.
#0HG	Tape upgrade HP-UX 8.05 to localized version.	\$300.
B2816A	Traditional Chinese HP-UX 8.05 Run-Time Environment, 2 user.	N/C
#AAH	Provides software on DDS (4mm DAT) tape. Includes: Installing and Updating HP-UX, and Peripheral Installation Guide. Refer to B2355A for complete system administration and installation documentation.	\$395.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media, B2358A.	N/C
#0HG	Tape upgrade HP-UX 8.05 to localized version.	\$300.

DEVELOPMENT PRODUCTS

B2354A	HP-UX 8.05/8.07 C/ANSI C Developer's Bundle.	\$1,795.
	Includes license-to-use for one workstation; C/ANSI C compiler, debugger; development tools for X11, OSF/Motif environment, HP VUE, Starbase, Starbase Display List, and General Programming Tools. NOTE: Software is available on CD-ROM media (B2358A or B2826A). For complete documentation, see B2355A.	
#UJ6	CD-ROM certificate for HP-UX 8.05. Required to access software on CD-ROM media, B2358A.	N/C
#UJ7	Provides HP-UX 8.05 software on DDS (4mm DAT) tape. Documentation included: Installing and Updating HP-UX, Installing Peripheral, HP VUE configuration guide, and HP VUE System Administration manual. For complete documentation see B2355A.	\$195.
#UJ8	CD-ROM certificate for HP-UX 8.07. Required to access software on CD-ROM media, B2326A.	N/C
#UJ9	Provides HP-UX 8.07 software on DDS (4mm DAT) tape. Documentation included: Installing and Updating HP-UX, Installing Peripheral, HP VUE configuration guide, and HP VUE System Administration manual. For complete documentation see B2355A.	\$195.

HP Apollo 9000 Series 700

SOFTWARE Cont'd

Product Number	Description	U.S. LIST \$
DEVELOPMENT PRODUCTS Cont'd		
B2356A	HP-UX 8.05/8.07 Developer's Toolkit Includes license-to-use for one workstation; Development Tools for X11, OSF/Motif environment, HP VUE, Starbase, Starbase Display List, and General Programming Tools. <i>NOTE:</i> Software is available on CD-ROM media (B2358A or B2826A). For complete documentation, see B2355A.	\$395.
#UJ6	CD-ROM certificate for HP-UX 8.05. Required to access software on CD-ROM media, B2358A.	N/C
#UJ7	Provides HP-UX 8.05 software on DDS (4mm DAT) tape. Documentation included: Installing and Updating HP-UX, Installing Peripheral, HP VUE configuration guide, and HP VUE System Administration manual. For complete documentation see B2355A.	\$195.
#UJ8	CD-ROM certificate for HP-UX 8.07. Required to access software on CD-ROM media, B2326A.	N/C
#UJ9	Provides HP-UX 8.07 software on DDS (4mm DAT) tape. Documentation included: Installing and Updating HP-UX, Installing Peripheral, HP VUE configuration guide, and HP VUE System Administration manual. For complete documentation see B2355A.	\$195.
B2357A	HP-UX 8.05/8.07 General Programming Tools. Includes site license-to-use General Programming and version control commands. <i>NOTE:</i> Software is available ("unlocked") on CD-ROM media (B2358A or B2826A). For complete documentation, see B2355A.	
#UJ7	Provides HP-UX 8.05 software on DDS (4mm DAT) tape. Documentation included: Installing and Updating HP-UX, Installing Peripheral, HP VUE configuration guide, and HP VUE System Administration manual. For complete documentation see B2355A.	\$195.
#UJ9	Provides HP-UX 8.07 software on DDS (4mm DAT) tape. Documentation included: Installing and Updating HP-UX, Installing Peripheral, HP VUE configuration guide, and HP VUE System Administration manual. For complete documentation see B2355A.	\$195.
B2413A	C/ANSI C License-to-use C/ANSI C for one Series 700 8.05/8.07 workstation.	\$1,500.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manuals	\$195.
B2408A	Fortran 77 License-to-use Fortran for one Series 700 8.05/8.07 workstation.	\$1,800.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manuals	\$195.
B2414A	Pascal License-to-use Pascal for one Series 700 8.05/8.07 workstation.	\$1,500.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manuals	\$195.



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HP Apollo 9000 Series 700

SOFTWARE Cont'd

Product Number	Description	U.S. LIST \$
DEVELOPMENT PRODUCTS Cont'd		
B2430A	COBOL/HP-UX Developer Package for HP9000 Series 700	\$8,250.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#OBJ	Hardcopy manual	\$195.
B2431A	COBOL/HP-UX Compiler for HP9000 Series 700	\$4,950.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#OBJ	Hardcopy manual	\$195.
B2432A	COBOL/HP-UX Run-Time System for HP9000 Series 700	\$1,250.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
B2451A	ALLBASE/SQL Development for Series 700. Includes ALLBASE/NET, ISQL, language preprocessors (C, COBOL, Pascal, FORTRAN, Ada), DBA Utilities, and RDBMS. Includes documentation	
#AAH	Provides software on DDS (4mm DAT) tape.	N/C
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#UA0	1-user license	\$3,000.
#UA5	1-16 user license	\$5,000.
#UB0	Return Credit for 1 user license	-\$3,000.
B2452A	ALLBASE/SQL Run-Time for Series 700. Includes ALLBASE/NET 800, ISQL, DBA Utilities, and RDBMS. Includes documentation	
#AAH	Provides software on DDS (4mm DAT) tape.	N/C
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#UA0	1-user license	\$2,250.
#UA5	1-16 user license	\$3,750.
#UB0	Return Credit for 1 user license	-\$2,250.
B2402A	HP C + + License-to-use HP C + + compiler, based on AT&T's 2.1 version for Series 700. <i>Requires prior or concurrent purchase of C + + media/manual product (B2403A).</i> <i>Prerequisites:</i> Must specify a minimum of one license-to-use option below:	
#0AN	License-to-use HP C + + version 2.1 on one (1) seat.	\$1,700.
#0A9	License-to-use HP C + + version 2.1 on ten (10) seats.	\$13,600.
#0AG	License-to-use HP C + + version 2.1 on twenty-five (25) seats.	\$29,750.
#0AA	License-to-use HP C + + version 2.1 on fifty (50) seats.	\$51,000.
B2403A	HP C + + media and manuals HP C + + media and manuals (B2402A) on Series 700. IIP C + + compatible with HP-UX 8.01 and later releases. Must specify media option.	
#AAH	Provides software on DDS (4mm DAT) tape.	\$240.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C

HP Apollo 9000 Series 700

SOFTWARE Cont'd

Product Number	Description	U.S. LIST \$
DEVELOPMENT PRODUCTS Cont'd		
B2406A	HP C++ Developer License-to-use HP C++ Developer Browsing and Construction Tool for Series 700.	
#0AN	License-to-use HP C++ version 2.1 on one (1) seat.	\$2,000.
#0A9	License-to-use HP C++ version 2.1 on ten (10) seats.	\$18,000.
#0AG	License-to-use HP C++ version 2.1 on twenty-five (25) seats.	\$37,500.
#0AA	License-to-use HP C++ version 2.1 on fifty (50) seats.	\$60,000.
B2407A	HP C++ Developer media and manuals HP C++ Developer and manuals (B2406A) on Series 700.	
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
B2673A	Open Dialogue Developer's Kit for Series 700. License-to-use Open Dialogue Developer's Kit on one Series 700 workstation.	\$1,845.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manuals	\$75.
B2425A	HP Ada Development System for Series 700. License-to-use V5.45.	\$6,985.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manuals	\$155.
B2424A	HP Ada Bindings for Series 700. License-to-use V5.45, GKS, Starbase, HP-UX, XLib and Xtk/Motif environment bindings.	\$6,965.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manuals	\$155.
B2424B	HP Ada Bindings for Series 700. License-to-use V5.45, XLib and Xtk/Motif environment bindings.	\$3,965.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manuals	\$155.
B2157A	Image Developer's Toolkit for HP-UX 8.07 Includes Programmer's Guide and Reference, sample programs, and Image Library with JPEG compression/depression software.	\$995.



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SOFTWARE Cont'd

Product Number	Description	U.S. LIST \$
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DEVELOPMENT PRODUCTS Cont'd

E2101A	HP VEE-Engine License-to-use for HP's visual engineering environment on Series 700 workstations. For use with HP-UX 8.05 or later.	\$895.
Choose one:		
#AAF	Provides software on CD-ROM media	\$50.
#AAH	Provides software on DDS (4mm DAT) tape.	\$50.
Choose one:		
#ABA	US English Documentation	\$50.
#ABD	German Documentation	\$50.
#ABF	French Documentation	\$50.
#ABJ	Japanese Documentation	\$50.

E2111A	HP VEE-Test License-to-use for HP's visual engineering environment. Supports Series 720, 730, and 750 workstations running HP-UX 8.05 or later. Requires E2070A IEEE-488 interface for HP-IB instrument control.	\$4900.
#ALS	Add E2070A IEEE-488 Interface	750.
Choose one:		
#AAF	Provides software on CD-ROM media	50.
#AAH	Provides software on DDS (4mm DAT) tape.	50.
Choose one:		
#ABA	US English Documentation	50.
#ABD	German Documentation	50.
#ABF	French Documentation	50.
#ABJ	Japanese Documentation	50.

GRAPHICS

B2377A	HP-GKS Libraries License-to-use HP-GKS graphics library for one Series 700 workstation HP-UX version 8.05.	\$1,500.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media., B2358A	N/C
#0BJ	Hardcopy manuals	\$300.
B2363C	HP-PHIGS 2.2 Development Libraries License-to-use HP-PHIGS 2.2 development libraries for one Series 700 workstation. For use with HP-UX version 8.05 & 8.07. Supports PersonalVRX, TurboVRX and CRX.	\$3,400.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manual	\$350.
B2364B	HP-PHIGS 2.2 Run-Time Libraries License-to-use HP-PHIGS 2.2 runtime product for one Series 700 workstation. For use with HP-UX version 8.05 & 8.07. Supports PersonalVRX, TurboVRX and CRX.	\$500.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C



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SOFTWARE Cont'd

Product Number	Description	U.S. LIST \$
DOS EMULATION		
B2382A	SoftPC 3.0 License-to-use License-to-use SoftPC 3.0 for Series 700 workstation.	\$700.
#AAH	Provides HP-UX 8.05/8.07 software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on B2358A (HP-UX 8.05) or B2826A (HP-UX 8.07) CD-ROM media	N/C
#0BJ	Hardcopy manuals	\$150.
NATIVE LANGUAGES		
B2201A	NLIO Japanese for Series 700 License-to-use Japanese NLIO on one Series 700 workstation.	\$605.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manuals	\$105.
B2205A	NLIO Korean for Series 700 License-to-use Korean NLIO on one Series 700 workstation.	\$605.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manuals	\$105.
B2209A	NLIO Chinese for Series 700 License-to-use Chinese NLIO on one Series 700 workstation.	\$605.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manuals	\$105.
B2213A	NLIO Simplified Chinese for Series 700 License-to-use Simplified Chinese NLIO on one Series 700 workstation.	\$605.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manuals	\$105.



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SOFTWARE Cont'd

Product Number	Description	U.S. LIST \$
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NETWORK COMPUTING DEVELOPMENT TOOLS

B2144A **LSLOCK HP Binary for Series 700.** **\$4,808.**

License to use development tools for the Network license system. Includes licensing software and managing software modules.

#AAH Provides software on DDS (4mm DAT) tape. **\$195.**
#AAU CD-ROM certificate. Required to access software on CD-ROM media. **N/C**
#0BJ Hardcopy manuals **\$47.**

B2674A **NCS/NIDL for Series 700.** **\$1290.**

License-to-use NIDL compiler on one Series 700 workstation.

#AAH Provides software on DDS (4mm DAT) tape. **\$195.**
#AAU CD-ROM certificate. Required to access software on CD-ROM media. **N/C**
#0BJ Hardcopy manuals **\$150.**

OTHER

B2810A **HP Terminal Session Manager 8-user**
License-to-use for up to 8-HP-UX users. Includes hardcopy documentation.

#AAH Provides HP-UX 8.05/8.07 software on DDS (4mm DAT) tape. **\$195.**
#AAU CD-ROM certificate. Required to access software on B2358A (HP-UX 8.05) or .
B2826A (HP-UX 8.07) CD-ROM media **N/C**

B1504A **HP Visual Editor 2.0 for HP-UX 8.05/8.07** **\$165.**

License-to-use, Visual Editor 2.0 for HP-UX 8.05.

#AAH Provides software on DDS (4mm DAT) tape. **\$195.**
#AAU CD-ROM certificate. Required to access software on CD-ROM media. **N/C**
#0BJ Hardcopy manuals **\$25.**

J2140A **LTU NS/9000** **\$700.**

License-to-use Network Services/9000 on one Series 700 workstation.

#0BE Hardcopy manuals **\$75.**
#AAH Provides software on DDS (4mm DAT) tape. **\$195.**
#AAU CD-ROM certificate. Required to access software on CD-ROM media. **N/C**

SYSTEM & NETWORK MANAGEMENT

B1807A **HP GlancePlus/UX for Series 700 on-line performance monitoring software.** **\$600.**

License-to-use HP GlancePlus/UX on a single Series 700 workstation. Software allows system administrator to view current system activity to identify and resolve performance problems when they occur.

#0BE User manual **\$100.**
#AAH Provides software on DDS (4mm DAT) tape. **\$195.**
#AAU CD-ROM certificate. Required to access software on CD-ROM media. **N/C**

HP Apollo 9000 Series 700

SOFTWARE Cont'd

Product Number	Description	U.S. LIST \$
SYSTEM & NETWORK MANAGEMENT		
B1806A	HP LaserRX/UX Collector for Series 700	\$1,200.
	License-to-use HP LaserRX/UX on a single Series 700 workstation.	
#0BE	User manual	\$100.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
B1766B	HP LaserRX/UX Analyzer S/W. (This software is PC based and requires a CD-ROM drive in the PC.)	\$5,500.
H5289A	HP PerfView analysis software for Series 700. Includes HP Network Node Manager.	
#0AK	License-to-use	\$26,000.
#AAH	Provides software on DDS (4mm DAT) tape and manual	\$195.
#AA0	Provides software on 1/4" tape and manual	\$195.
#AA1	Provides software on 1/2" tape and manual	\$195.
#0B1	Manual only	\$100.
H5292A	HP PerfView server license for HP-UX systems	
#UDF	Up to 5 workstations	\$7,000.
#UDG	Up to 10 workstations	\$12,000.
#UDH	Up to 25 workstations	\$25,000.
#UDJ	Up to 50 workstations	\$40,000.
H5294A	HP PerfView desktop server license for HP-UX systems	
#UDG	Up to 10 workstations	3,500.
#UDH	Up to 25 workstations	\$7,500.
#UDJ	Up to 50 workstations	\$11,250.
#UDK	Up to 100 workstations	\$15,000.
Task Broker – Task Broker is a software product that provides efficient access to computers across a network. Task Broker selects the best computer on a network to run a batch type task, transparently transfers its associated data to the selected computer, and sends the results back to the user upon completion of the task. Applies to series 300/400/600/700/800, DN2500, 3500, 4500, and 10000 workstations/systems. Media and documentation must be ordered separately. Licenses are restricted to a local area network. For purposes of this license, a local area network is defined as all systems connected to the same physical ethernet or token ring.		
B1740L	Task Broker License-to-Use – up to 10 workstations/systems	\$5,000
B1741A	Task Broker License-to-Use – up to 50 workstations/systems	\$15,000
B1742L	Task Broker Site License-to-Use	\$30,000
B1732A	Media and Documentation for Series 300/400/600/700/800. Task Broker Software. Requires prior or concurrent purchase of B1740/1/2L. Must specify media option.	\$300.
AA0	Software on 1/4-inch cartridge tape for Series 300/400/600/700/800.	N/C
AA1	Software on 1/2-inch 1600 cpi 9-track tape for Series 300/400/600/700/800.	N/C
AAH	Software on 4mm DDS DAT tape.	N/C



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SOFTWARE Cont'd

Product Number	Description	U.S. LIST \$
SYSTEM & NETWORK MANAGEMENT Cont'd		
B2305L	HP SharedX 1.X License-to-use on any platform. Must order one "UA " option below.	
#UA0	Single node license	\$495.
#UA3	8 node LTU	\$3,300.
#UA6	24 node LTU	\$9,000.
#UA8	48 node LTU	\$15,000.
#UAA	96 node LTU	\$25,000.
B2307A	HP SharedX 1.X Media and Manuals for Series 700 with HP-UX 8.0X.	
#UJ6	CD-ROM certificate for HP-UX 8.05. Required to access software on CD-ROM media, B2358A.	N/C
#UJ7	Provides HP-UX 8.05 software on DDS (4mm DAT) tape.	\$195.
#UJ8	CD-ROM certificate for HP-UX 8.07. Required to access software on CD-ROM media, B2826A.	N/C
#UJ9	Provides HP-UX 8.07 software on DDS (4mm DAT) tape.	\$195.
#0BJ	Hardcopy manuals	\$150.
B2828A	HP SharedX 1.X Media and Manuals for Series 700/RX with Series 600/700/800 host. Host must be running HP-UX 7.x or 8.0x	
#AA1	Provides software on 1/2-inch magnetic tape	\$195.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manuals	\$150.
B1942A	HP OmniBack Base License for IIP 9000 Series 300, 400, 700, 800 and Apollo Domain workstations; HP OmniBack is a network oriented backup management system for distributed HP-UX and Apollo Domain environments. Must be ordered prior or together with node licenses and platform software; HP OmniBack or HP OmniBack/Turbo for Series 600/700/800, count as a B1942A Base License. <i>NOTE: First time purchase must include B1942A or B1929A, and B1943A and B1945A</i>	\$5,050.
B1943A	HP OmniBack Node License for HP 9000 Series 300, 400, 700, 800 and Apollo Domain workstations. Must be ordered for each workstation in the backup environment.	Price per workstation (1-24 workstation) \$150. (25-99 workstation) \$135. (100 plus) \$110.
B1945A	HP OmniBack for HP 9000 Series 700; HP-UX 8.05 or later. Must specify media option and language option; Must be ordered together with node licenses.	\$250.
#AAH	Provides software on DDS (4mm DAT) tape.	N/C
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#ABA	U.S. English	N/C
#ABJ	Japanese Documentation	N/C
#AGZ	License-to-use for 3 months Evaluation copy	-\$200.
B1929A	HP OmniBack/Turbo for HP 9000 Series 700; Provides both network-oriented backups and high-speed backups of data bases. Includes B1942A HP OmniBack base license. Must specify license-to-use, media option and language option;	
#UAU	License-to-use one OmniBack/Turbo	\$10,000.
#AGZ	License-to-use for 3 months Evaluation copy	\$50.
#AAH	Provides software on DDS (4mm DAT) tape.	N/C
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#ABA	U.S. English	N/C
#ABJ	Japanese Documentation	N/C



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SOFTWARE Cont'd

Product Number	Description	U.S. LIST \$
SYSTEM & NETWORK MANAGEMENT Cont'd		
B1900B	HP OpenSpool HP OpenSpool is a print management solution for networked and stand-alone computing environments of HP 9000 Series 300/400/600/700/800 systems (HP-UX) and SUN SPARCstations (SUN O.S. 4.1.1). Must specify media, language and license options.	
#UA0	License to use for 1 workstation	\$250.
#UBK	License-to-use for SUN SPARCstation	\$250.
#UBN	Unlimited license to use for 1 site	\$75,000.
#0AZ	Single country company license:	\$300,000.
B1907B	HP OpenSpool Software Documentation for HP 9000 Series 700 Must specify media, language and license options.	
#AAH	Provides software on DDS (4mm DAT) tape.	\$150.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#ABA	U.S. English	\$150.
#ABD	German	\$150.
#ABE	Spanish	\$150.
#ABJ	Japanese	\$150.
#AGZ	License-to-use for 3 months Evaluation copy (Requires media and language options)	-\$150.
B1024A	HP OpenView Network Node Manager for Series 600/700/800.	
#0AK	License-to-use one HP-UX manager	\$15,000.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AA0	Provides software on 1/4-inch cartridge tape	N/C
#AA1	Provides software on 1/2-inch magnetic tape	N/C
#0B1	Manual only	\$100.
B1037A	HP OpenView Extensible SNMP Agent for Series 600/700/800. Must specify media option, language option, and tier or license option	
#AA0	Provides software on 1/4-inch cartridge tape	\$100.
#AAH	Provides software on DDS (4mm DAT) tape.	\$100.
#0B1	Manual only	\$15.
#UA0	License for use on a single system	\$1,000
#0A9	License for use on 10 systems	\$8,000
UAE	License for use on 100 systems	\$60,000
UAG	License for use on 1000 systems	\$300,000
#UE4	Upgrade from single system license	-\$1,000
#UE5	Upgrade from 10 system license	-\$8,000
#UE6	Upgrade from 100 system license	-\$60,000
B2681A	Passwd Etc for Series 700. Requires Domain system running SR10 or later as Registry Server	\$225.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C

HP Apollo 9000 Series 700

DOCUMENTATION

This table represents the manuals available with the HP-UX Documentation (B2355A) product. These manuals may also be purchased separately by calling Direct Marketing Division (DMK).

B2355A for Series 700	Part numbers	CD-ROM
#0BD General Usage (one set included with each HP-UX workstation) HP VUE User's Guide Using the X Window System A Beginner's Guide to HP-UX Finding Information (HP-UX)	 B1171-90042 B1171-90043 B1862-90000 B2355-90013	 Yes Yes Yes Yes
#0BE System Administration and Installation Installing and Administering LAN Using Serial Line IP Protocols Networking Overview Using NFS Services Installing and Administering NFS Using ARPA Services Installing and Administering ARPA Services HP VUE Configuration Guide HP VUE System Administration Installing and Updating HP-UX (8.0/8.05) Installing and Updating HP-UX (8.07) Master Index (HP-UX) Error Message Catalog (HP-UX) How HP-UX Works: Concepts for the System Administrator Managing Clusters of HP 9000 Computers Sharing the HP-UX File System Installing Peripherals System Administration Tasks HP-UX System Security Solving HP-UX Problems Improving performance with Software Disk Striping HP-UX Reference Managing Software Products with Network License System Managing NCS Software EISA Configuration Utility * Manuals shipped with HP-UX tape products, B2352A, B2353A, and CD-ROM media products, and B2358A/B2826A	 98194-60526 98194-60522 B1012-90012 B1013-90008 B1013-90009 B1014-90006 B1014-90007 *B1171-90041 *B1171-90044 *B2355-90000 *B2355-90014 B2355-90008 B1862-90004 B2355-90005 B2355-90009 *B2355-90006 B2355-90003 B1862-90009 B1862-90010 B2355-90015 B2355-90004 D-11272-B D-11895-C B2355-90012	 Yes Yes Yes Yes Yes Yes Yes Yes Yes N/A Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes N/A N/A N/A N/A
#0BG HP-UX User's Guides Remote Access: Kermit, UUCP, vt Mail System: elm, mailx Terminal Control: curses, Term0, ITE Text Formatting: mm, tbl, nroff Number Processing: bc, bs, dc Text Processing: awk, ed, sed Shells: Bourne, C, Korn, Keyshell, PAM Ultimate Guide to VI and EX Text Editors	 B1862-90011 B1862-90012 B1862-90013 B1862-90014 B1862-90015 B1862-90016 B1862-90017 97005-90015	 Yes Yes Yes Yes Yes Yes Yes Yes
#0BT C/ANSI C Compiler HP-UX Symbolic Debugger C Programming Tools C Programmer's Guide C Reference	 B1864-90005 B1864-90009 92434-90002 92453-90024	 Yes Yes Yes Yes



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DOCUMENTATION Cont'd

B2355A for Series 700	Part numbers	CD-ROM
#0BF General Programming		
ADB Tutorial	92432-90005	N/A
LLA Programmer's Guide	98194-60524	N/A
Berkeley IPC Programmer's Guide	98194-60525	N/A
NetIPC Programmer's Guide	98194-60527	N/A
Programming and Protocols for NFS Services	B1013-90010	Yes
HP-UX Reference	B2355-90004	Yes
Posix Conformance Document	B1864-90001	Yes
Device I/O: DIL, HP-HIL	B1864-90002	Yes
Native Language Support	B1864-90003	Yes
HP-UX Assembler and Tools	92432-90001	Yes
HP-UX Portability Guide	B1864-90006	Yes
Programming on HP-UX	B2355-90010	Yes
Using the Audio Application Programming	B2355-90016	Yes
#0BL User Environment		
HP VUE User Environment Programmer's Guide	B1171-90024	Yes
Programming with Xlib	B1171-90026	Yes
X Toolkit Intrinsics Programming	B1171-90027	N/A
X Toolkit Intrinsics Reference	B1171-90028	N/A
X Window System C Quick Reference	B1171-90029	Yes
Mastering Motif Widgets	5010-7168	Yes
HP OSF/Motif Style Guide	B1171-90032	Yes
HP OSF/Motif Programmer's Reference	B1171-90033	Yes
HP OSF/Motif Programmer's Guide	B1171-90034	Yes
#0BM Starbase Programming		
Starbase Device Drivers Library	98592-90026	Yes
Starbase C Pocket Reference	98592-90031	N/A
Starbase FORTRAN Pocket Reference	98592-90041	N/A
Starbase Beginner's Guide	98592-90048	Yes
Starbase Pascal Pocket Reference	98592-90051	N/A
Starbase Reference	98592-90067	Yes
Starbase Graphics Techniques	98592-90081	N/A
HP Fast Alpha/Font Manager Programmer's	98592-90093	Yes
Starbase Radiosity and Ray Tracing	98885-90002	Yes
Starbase Display List Programmer's	B2361-90000	Yes
#0BJ CD-ROM Complementary Documentation		
Starbase C Pocket Reference	98592-90031	N/A
Starbase FORTRAN Pocket Reference	98592-90041	N/A
Starbase Pascal Pocket Reference	98592-90045	N/A
Starbase Graphics Techniques	98592-90081	N/A
Managing Software Products with Network License System	D-11272-B	N/A
Managing NCS Software	D-11895-C	N/A
X Toolkit Intrinsics Programming	B1171-90027	N/A
X Toolkit Intrinsics Reference	B1171-90028	N/A
Installing and Administering NFS - Addendum for automounter	B1013-91001	N/A
Using the Audio Application Program Interface	B2355-90016	N/A



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DOCUMENTATION Cont'd

Additional Manuals included on CD-ROM	Part numbers	CD-ROM
ALLBASE/SQL Reference ALLBASE/ISQL Reference ALLBASE/SQL Database Administration Guide ALLBASE/SQL Message ALLBASE/SQL Quick Reference ALLBASE/SQL FORTRAN Application Programming ALLBASE/SQL C Application Programming ALLBASE/NET User's Guide	36217-90001 36217-90004 36217-90005 36217-90009 36217-90012 36217-90013 36217-90014 36217-90093	Yes Yes Yes Yes Yes Yes Yes Yes
EISA Configuration Utility for HP-UX	B2370-90000	Yes
HP FORTRAN 77/HP-UX Programmer's Guide HP FORTRAN 77/HP-UX Reference Guide HP FORTRAN 77/HP-UX Quick Reference Guide FORTRAN/9000Reference	92430-90004 92430-90005 92430-90013 B2408-90003	Yes Yes Yes Yes
HP Pascal/HP-UX Reference HP Pascal/HP-UX Programmer's Guide HP Pascal/HP-UX Quick Reference	92431-90005 92431-90006 92431-90007	Yes Yes Yes
HP-GKS User's Guide HP-GKS Device Drivers Library	B2362-90001 B2362-90002	Yes Yes
Native Language I/O System Administrators Guide Native Language I/O Access User's Guide	92559-90001 92559-90002	Yes Yes
Terminal Session Manager: User's Guide	B2351-90000	Yes

N/A: Not Available



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HP HARDWARE SUPPORT SERVICES

HP Apollo Maintenance Services

HP Apollo Maintenance Services for workstations provide you with high-quality support that enables you to maximize computer system uptime and productivity. Hewlett-Packard's professionalism and commitment to quality ensure that you receive maximum availability from your HP computer products.

HP Apollo Maintenance provides the following:

- * **Remote problem solving assistance:** Get the most productivity out of your systems by working with experts at the HP Response Center to quickly solve your computing problems, or through electronic access support information using HP Support Line.
- * **On-site hardware support:** Maximize computer system uptime and productivity through assistance from local HP engineers, backed by additional local and worldwide resources.
- * **Personalized technical assistance:** Maximize the effectiveness of your people and improve the productivity of your system through an account-assigned support consultant who understands your business goals and knows your operating environment.
- * **Software Updates:** Protect your investment in computer systems through software updates which ensure your system is compatible with new hardware, software and peripherals.

Choose the program which best meets your business needs

Under the HP Apollo Maintenance program, we offer you three alternatives for purchasing support based on your specific business needs. You may choose from:

- * **HP Apollo Comprehensive Maintenance** – covers your total support needs in a single product offering at the best price.
- * **HP Apollo Separate Services** – provides an alternative when full support coverage is not required or modified coverage hours are necessary.
- * **HP Apollo Custom Support Plan** – lets you mix contractual support with other support services such as education and consulting, creating a customized support solution to meet your needs.

HP Apollo Comprehensive Maintenance

Now you can buy comprehensive support coverage – hardware, software and even network support – for your entire workstation environment in a single service. With HP Apollo Comprehensive Maintenance service, you get the full features and benefits of HP's separate services in a simplified package, priced lower than purchasing the individual separate support services. In addition to the standard features and benefits of the separate support services, HP Apollo Comprehensive Maintenance provides:

- * **Complete support.** HP Apollo Comprehensive Maintenance provides complete coverage for your computing environment. HP owns your problems and with a single telephone call, HP's worldwide support resources are at your fingertips.
- * **Simple support to manage.** The Comprehensive Maintenance service offers you an enhanced support offering which has simplified the contract management process for you. You spend less time understanding contract documentation and handling contract changes, and more time focusing on critical business issues.
- * **Cost-effective support.** HP Apollo Comprehensive Maintenance covers your complete workstation environment at a lower price than you would pay if you purchased the individual hardware, software and network support services.

HP Apollo Comprehensive Maintenance support is very flexible and can easily be adapted to meet the needs of any workstation environment, today and as you expand into the future. Based on your environment, we will help you to select one of these two products that best meets your needs:

- * **Simple all HP Apollo LAN Environments:** For a single site network of HP workstations, you receive full coverage for your hardware, software and node-to-node communications.

H2579A + 000 HP Apollo comprehensive Maintenance for workstations. Provides software telephone assistance and next day on-site response for hardware assistance.

- * **Complex Network Environments:** in today's world of complex, multivendor and multisite networked computing environments, you receive full coverage for your hardware, software and network products:

H2580A + 000 HP Apollo Comprehensive Maintenance for networked workstations. Provides software/network telephone assistance, network problem management assistance, and fault isolation. Includes next day on-site response for hardware assistance.

HP Apollo 9000 Series 700

HP HARDWARE SUPPORT SERVICES Cont'd

HP Apollo Comprehensive Maintenance is a single, flexible package providing hardware, software and, if necessary, network support for all your workstation products. Your actual monthly price will depend upon your workstation configuration, support features and hardware response time required. Contact your local sales representative for more information or ordering assistance.

HP Apollo Separate Services

Like HP Comprehensive Maintenance, the separate support services provide you with high-quality support that enables you to maximize computer system uptime and productivity. The separate hardware or software/network support services offer you a better alternative when only a subset of the full coverage solution best meets your needs. In these instances, you may purchase the following services separately.

- * Hardware support – HP SuccessLine Service
- * Software and network support – HP TeamLine, HP Network ResponseLine, HP ResponseLine, HP BasicLine and HP ApolloLine.

HP SuccessLine Service – On-Site Hardware Support

HP SuccessLine Service gives you the flexibility to choose response times and coverage periods that meet your needs, while providing excellent value for your money. When a hardware problem arises, you will receive assistance from local HP engineers, backed by our local and worldwide resources.

Choosing the right HP SuccessLine service level for you depends upon the critical nature of your applications and the availability of alternate computing resources. While these service levels meet the needs of most customers, HP also has the flexibility to individualize service for you. Your HP support representative can discuss these alternatives with you. You may choose from four standard service levels:

Priority Plus Support.

If your applications are extremely critical and calls for maximum availability, this service level will provide you with maximum coverage hours and days at HP's best possible response. This coverage is ideal if you have crucial applications or multiple-shift operations.

Priority Support.

If you require maximum availability during standard business hours and evenings and a very rapid response from HP, then this service level will meet your needs. On-site service is available for several hours beyond the standard business day, and HP will respond to your service request as quickly as possible. This coverage is provided during the normal work week.

Next Day Support.

If your application allows for service delivery on the following business day, then this service level will be your most cost-effective solution for support. This solution is ideal if you have spare or substitute equipment.

Scheduled Support.

This service level offers the lowest cost support for your HP computer products. It is an economical support solution if you have alternate PCs or workstations and your users are running less-critical applications. An HP engineer makes scheduled weekly visits to a central site at your location.

Support Selection Guide for HP SuccessLine Service

	Priority Plus 02G	Priority 02A	Next Day 02C	Scheduled 02L
Coverage Hours	24 hours 7 days	8 am – 9 pm* Mon – Fri	8 am – 5 pm Mon – Fri	8 am – 5 pm Mon – Fri
Response Time	Best response; not to exceed 4 hours	Best response; not to exceed 4 hours	Next working day	Scheduled weekly visits
Usage Environment	Highly critical	Urgent	Less critical	Multiple units; spare equipment
* If you request service before 5:00 pm, an HP engineer will respond on-site with 4 hours, if an on-site call is necessary.				



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Workstation
Systems Division

HP Apollo 9000 Series 700

HP HARDWARE SUPPORT SERVICES

Product Number	Description	02G	02A	02C	02L
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MODEL 705 Diskless:

A2289A	M705 19"GRX 16MB	57	46	32	24
#AL9	Select LAN AUI configuration	0	0	0	0
#AM0	Add 210MB internal SCSI II	23	18	14	11
#AM8	Add 600MB 5.25" CD-ROM	27	22	18	13
#AMB	Add 1.4MB 3.5" Floppy	8	6	5	4
#AMK	Add 420MB internal SCSI II	38	30	24	18
#AMW	Add 2GB 3.5" DAT	40	32	26	18
#001	Delete 8 MB RAM	-6	-5	-4	-3
#AN4	Add 8 MB RAM	6	5	4	3
#AN8	Add 16 MB RAM	12	10	8	6
#AND	Add 48 MB RAM	37	30	24	18

A2209A	M710 19"GRX 16MB, 420MB,Floppy	103	82	61	46
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A2211A	M710 16"CRX 16MB, 420MB	84	68	54	41
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A2212A	M710 19"GRX 16MB, 420MB	95	76	56	42
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A2214A	M710 19"CRX 16MB, 420MB	109	88	70	52
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A2215A	M710 19"CRX 32MB, 2x420MB	160	128	102	76
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A2222A	M710 19"CRX 32MB, 420MB,2GB DAT	162	130	104	76
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MODEL 710 Diskless:

A2208A	M710 19"GRX 16MB	57	46	32	24
#AL9	Select LAN AUI configuration	0	0	0	0
#AM0	Add 210MB internal SCSI II	23	18	14	11
#AM8	Add 600MB 5.25" CD-ROM	27	22	18	13
#AMB	Add 1.4MB 3.5" Floppy Disk	8	6	5	4
#AMK	Add 420MB Inter. SCSI II Disk	38	30	24	18
#AMW	Add 2GB 3.5" 4mm DDS Tape	40	32	26	18
#AN4	Add 8 MB RAM	6	5	4	3
#AN8	Add 16 MB RAM	12	10	8	6
#AND	Add 48 MB RAM	37	30	24	18



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HP Apollo 9000 Series 700

HP HARDWARE SUPPORT SERVICES

Product Number	Description	02G	02A	02C	02L
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MODEL 710 Diskless:

A2210A	M710 16"CRX 16MB	46	38	30	23
#AL9	Select LAN AUI configuratio	0	0	0	0
#AM0	Add 210MB internal SCSI II	23	18	14	11
#AM8	Add 600MB 5.25" CD-ROM	27	22	18	13
#AMB	Add 1.4MB 3.5" Floppy Disk	8	6	5	4
#AMK	Add 420MB Inter. SCSI II Disk	38	30	24	18
#AMW	Add 2GB 3.5" 4mm DDS Tape	40	32	26	18
#AN4	Add 8 MB RAM	6	5	4	3
#AN8	Add 16 MB RAM	12	10	8	6
#AND	Add 48 MB RAM	37	30	24	18

A2213A	M710 19"CRX 16MB	71	58	46	34
#AL9	Select LAN AUI configuration	0	0	0	0
#AM0	Add 210MB internal SCSI II	23	18	14	11
#AM8	Add 600MB 5.25" CD-ROM	27	22	18	13
#AMB	Add 1.4MB 3.5" Floppy	8	6	5	4
#AMK	Add 420MB internal SCSI II	38	30	24	18
#AMW	Add 2GB 3.5" 4mm DDS Tape	40	32	26	18
#AN4	Add 8 MB RAM	6	5	4	3
#AN8	Add 16 MB RAM	12	10	8	6
#AND	Add 48 MB RAM	37	30	24	18

MODEL 710 Add-ons:

A2216A	8 MB RAM	6	5	4	3
A2217A	16 MB RAM	12	10	8	6
A2218A	32 MB RAM	25	20	16	12
A2219A	210MB SCSI II Disk Drive	23	18	14	11
A2221A	420MB SCSI II Disk Drive	38	30	24	18
A2223A	1.4MB 3.5" Floppy Disk Drive	8	6	5	4
A2224A	600MB 5.25" CD-ROM Disk	27	22	18	14
A2274A	2GB 3.5" 4mm DDS Tape Drive	40	32	26	18
A2275A	2GB 4mm DDS Tape w/Compression	45	36	29	22



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Workstation
Systems Division

HP Apollo 9000 Series 700

HP HARDWARE SUPPORT SERVICES

Product Number	Description	02G	02A	02C	02L
MODEL 720:					
A2263A	M720 19"CRX-24 16MB,420MB				
#AL9	Select LAN AUI configuration	0	0	0	0
#ALD	EISA interface slot	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#AMB	Add 1.4MB 3.5" Floppy Disk	5	4	3	2
#AMH	Add 420MB Inter.SCSI II Disk	38	30	24	18
#AN8	Add 16 MB RAM	12	10	8	6
#AND	Add 48 MB RAM	37	30	24	18
#112	Add 112 MB RAM	87	70	56	42
A2264A	M720 19"CRX-24Z 16MB, 420MB	201	162	129	97
#AL9	Select LAN AUI configuration	0	0	0	0
#ALD	EISA interface slot	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#AMB	Add 1.4MB 3.5" Floppy Disk	8	6	5	4
#AMH	Add 420MB Inter. SCSI II Disk	38	30	24	18
#AN8	Add 16 MB RAM	12	10	8	6
#AND	Add 48 MB RAM	37	30	24	18
#112	Add 112 MB RAM	87	70	56	42
A1929A	M720 19"GRX 16MB, 420MB	100	80	60	44
#AL9	Select LAN AUI configuration	0	0	0	0
#ALD	EISA interface slot	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#AMB	Add 1.4MB 3.5" Floppy Disk	8	6	5	4
#AMH	Add 420MB Inter. SCSI II Disk	38	30	24	18
#AN8	Add 16 MB RAM	12	10	8	6
#AND	Add 48 MB RAM	36	30	24	18
#112	Add 112 MB RAM	87	70	56	42

HP Apollo 9000 Series 700

HP HARDWARE SUPPORT SERVICES

Product Number	Description	02G	02A	02C	02L
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MODEL 720:

A1933A	M720 19"CRX 16MB,420MB	115	92	74	55
#AL9	Select LAN AUI configuratio	0	0	0	0
#ALD	EISA interface slot	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#AMB	Add 1.4MB 3.5" Floppy Disk	8	6	5	4
#AMH	Add 420MB Inter. SCSI II Disk	38	30	24	18
#AN8	Add 16 MB RAM	12	10	8	6
#AND	Add 48 MB RAM	36	30	24	18
#112	Add 112 MB RAM	87	70	56	42

MODELS 720/730 Add-ons:

A1979A	16 MB RAM	12	10	8	6
A1983A	420MB SCSI II Disk	38	30	24	18
A1984A	1.4MB 3.5" Floppy Disk	8	6	5	4
A1986A	EISA Upgrade kit	0	0	0	0
25525A	EISA SCSI II host adapter	0	0	0	0
25560A	EISA HP-IB adapter	0	0	0	0
25567A	EISA LAN/9000	0	0	0	0
#740	Add Thick MAU	0	0	0	0
#840	Add Ethertwist MAU	0	0	0	0

MODEL 730:

A1946B	M730 19"GRX 32MB,420MB	110	88	66	49
#AL9	Select LAN AUI configuration	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#AMB	Add 1.4MB 3.5" Floppy Disk	8	6	5	4
#AMH	Add 420MB Inter. SCSI II Disk	38	30	24	18
#ANN	Add 32 MB RAM	25	20	16	12
#ANY	Add 96 MB RAM	75	60	48	36



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Systems Division

HP Apollo 9000 Series 700

HP HARDWARE SUPPORT SERVICES

Product Number	Description	02G	02A	02C	02L
MODEL 730:					
A1950B	M730 19"CRX 32MB,420MB	126	100	80	60
#AL9	Select LAN AUI configuration	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#AMB	Add 1.4MB 3.5" Floppy Disk	8	6	5	4
#AMH	Add 420MB Inter. SCSI II Disk	38	30	24	18
#ANN	Add 32 MB RAM	25	20	16	12
#ANY	Add 96 MB RAM	75	60	48	36
A2265B	M730 19"CRX-24 32MB,420MB	171	138	110	82
#AL9	Select LAN AUI configuration	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#AMB	Add 1.4MB 3.5" Floppy Disk	8	6	5	4
#AMH	Add 420MB Inter. SCSI II Disk	38	30	24	18
#ANN	Add 32 MB RAM	25	20	16	12
#ANY	Add 96 MB RAM	75	60	48	36
A2266B	M730 19"CRX-24Z 32MB,	210	169	135	101
#AL9	Select LAN AUI configuration	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#AMB	Add 1.4MB 3.5" Floppy Disk	8	6	5	4
#AMH	Add 420MB Inter. SCSI II Disk	38	30	24	18
#ANN	Add 32 MB RAM	25	20	16	12
#ANY	Add 96 MB RAM	75	60	48	36
A2276B	M730 19" VRX T4 32MB,	452	363	290	217
#AL9	Select LAN AUI configuration	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#AMB	Add 1.4MB 3.5" Floppy Disk	8	6	5	4
#AMH	Add 420MB Inter. SCSI II Disk	38	30	24	18
#ANN	Add 32 MB RAM	25	20	16	12
#ANY	Add 96 MB RAM	75	60	48	36



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Workstation
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HP Apollo 9000 Series 700

HP HARDWARE SUPPORT SERVICES

Product Number	Description	02G	02A	02C	02L
MODEL 750:					
A2278B	M750 19"CRX 64MB,1.3GB	152	122	98	72
#AL9	Select LAN AUI configuration	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#ALQ	EISA FDDI S700	18	14	11	8
#AM8	Add 600MB CD-ROM Drive	33	26	21	15
#AMB	Add 1.4MB 3.5" Floppy Disk	8	6	5	4
#AMG	Add 1.3GB Inter. SCSI II Disk	40	32	26	19
AMX	Add 4mm DDS-DC Tape Drive	45	36	29	22
ANQ	Add 64 MB RAM	50	40	32	24
ANW	Add 192 MB RAM	150	120	96	72
ANX	Add 320 MB RAM	250	200	160	120
A2267B	M750 19"CRX-24 64MB,1.3GB	199	160	128	95
#AL9	Select LAN AUI configuration	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#ALQ	EISA FDDI S700	18	14	11	8
#AM8	Add 600MB CD-ROM Drive	33	26	21	15
#AMB	Add 1.4MB 3.5" Floppy Disk	5	4	3	2
#AMG	Add 1.3GB Inter. SCSI II Disk	40	32	26	19
AMX	Add 4mm DDS-DC Tape Drive	45	36	29	22
ANQ	Add 64 MB RAM	50	40	32	24
ANW	Add 192 MB RAM	150	120	96	72
ANX	Add 320 MB RAM	250	200	160	120
A2268B	M750 19"CRX-24Z 64MB,1.3GB	238	191	153	114
#AL9	Select LAN AUI configuration	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#ALQ	EISA FDDI S700	18	14	11	8
#AM8	Add 600MB CD-ROM Drive	33	26	21	15
#AMB	Add 1.4MB 3.5" Floppy Disk	5	4	3	2
#AMG	Add 1.3GB Inter. SCSI II Disk	40	32	26	19
AMX	Add 4mm DDS-DC Tape Drive	45	36	29	22
ANQ	Add 64 MB RAM	50	40	32	24
ANW	Add 192 MB RAM	150	120	96	72
ANX	Add 320 MB RAM	250	200	160	120



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Systems Division

HP Apollo 9000 Series 700

HP HARDWARE SUPPORT SERVICES

Product Number	Description	02G	02A	02C	02L
MODELS 750 Add-ons:					
25525A	EISA SCSI II host adapter	0	0	0	0
25560A	EISA HP-IB adapter	0	0	0	0
25567A	EISA LAN/9000	0	0	0	0
#740	Add Thick MAU	0	0	0	0
#840	Add Ethertwist MAU	0	0	0	0
J2156A	EISA FDDI/9000 for S700	18	14	11	8
J2159A	X.25/9000 for S700	14	11	9	
J2165A	IEEE 802.5 Token Ring S700	0	0	0	0
A2544A	ATR/EISA for M730/M750	16	13	10	8
SERIES 700 Servers:					
A2283A	M750 64MB,1.3GB SCSI, 4mm DSS Tape w/data comp, CD-ROM, 4 EISA slots	229	184	148	111
#AL9	Select LAN AUI configuration	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
ALQ	Add EISA FDDI S700	18	14	11	8
#AMH	Add 420MB Inter. SCSI II Disk	38	30	24	18
#ANQ	Add 64MB RAM	50	40	32	24
#ANW	Add 192MB RAM	150	120	96	72
#ANX	Add 320MB RAM	250	200	160	120
A2284A	M730 64MB,2x420MB SCSI, CD-ROM,4mm DSS Tape,1 EISA slot	252	202	162	122
#AL9	Select LAN AUI configuration	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#AMH	Add 420MB Inter. SCSI II Disk	38	30	24	18
#ANQ	Add 64MB RAM	50	40	32	24



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Workstation
Systems Division

HP Apollo 9000 Series 700

HP HARDWARE SUPPORT SERVICES

Product Number	Description	02G	02A	02C	02L
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SERIES 700 Servers:

A2286A	M720 32MB,420MB SCSI, CD-ROM, 4mm DSS DAT,1 EISA slot	180	145	116	88
#AL9	Select LAN AUI configuration	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#AMH	Add 420MB Inter. SCSI II Disk	38	30	24	18
#ANN	Add 32MB RAM	25	20	16	12
#ANY	Add 96MB RAM	75	60	48	36
C2455A	M720 32MB,2x420MB SCSI 19" GRX,1.3GB external disk, 4mm DSS Tape, 20GB Optical Jukebox	321	258	191	

Series 700 Multi-monitor workstations:

A2279A	M720 2xCRX. 19", 16MB RAM one 420MB disk	175	142	113	83
#AL9	Select LAN AUI configuration	0	0	0	0
#ALD	EISA interface slot	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#AMB	Add 1.4MB 3.5" Floppy Disk	8	6	5	4
#AMH	Add 420MB Inter. SCSI II Disk	38	30	24	18
#AN8	Add 16 MB RAM	12	10	8	6
#AND	Add 48 MB RAM	37	30	24	18
#112	Add 112 MB RAM	87	70	56	42
A2277B	M730 2xCRX, 19",32MB RAM, one 420MB disk	184	149	111	87
#AL9	Select LAN AUI configuration	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#AMB	Add 1.4MB 3.5" Floppy Disk	8	6	5	4
#AMH	Add 420MB Inter. SCSI II Disk	38	30	24	18
#AN8	Add 16 MB RAM	12	10	8	6
#ANN	Add 32MB RAM	25	20	16	12
#ANY	Add 96MB RAM	75	60	48	36A



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HP Apollo 9000 Series 700

HP HARDWARE SUPPORT SERVICES

Product Number	Description	02G	02A	02C	02L
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Series 700 Multi-monitor workstations:

A2282A	M750 2xCRX, 19" 32MB RAM one 420MB disk	212	171	137	100
#AL9	Select LAN AUI configuration	0	0	0	0
#ALE	EISA SCSI II adapter	0	0	0	0
#ALF	EISA HP-IB adapter	0	0	0	0
#ALG	EISA LAN/9000	0	0	0	0
#ALQ	EISA FDDI S700				
#AM8	Add 600MB CD-ROM Drive	33	26	21	15
#AMB	Add 1.4MB 3.5" Floppy Disk	5	4	3	2
#AMG	Add 1.3GB Inter. SCSI II Disk	40	32	26	19
#AMX	Add 4mm DDS-DC Tape Drive	45	36	29	22
#ANQ	Add 64MB RAM	50	40	32	24
#ANW	Add 192MB RAM	150	120	96	72
#ANX	Add 320MB RAM	250	200	160	120

Graphics Upgrades:

A2269A	Upgrades a Model 750 Dual CRX workstation configuration to a Quad CRX configuration.	97	79	63	45
A2270A	Upgrades a Model 750 CRX-24 workstation configuration to a Dual CRX-24 configuraiton.	84	68	54	40
98768A	Upgrades a Series 700 Server configuration to a CRX accelerated color graphics workstation.	37	30	24	17
A2271A	Upgrades a series 700 CRX workstation configuration to CRX-24 accelerated color graphics.	84	68	54	40
A2272A	Upgrades a Series 700 PVRX workstation configuration to CRX-24 accelerated color graphics.	29	24	22	7
98767A	Upgrades a Series 700 Turbo VRX T2 to a T4 configuration.	126	101	80	61



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Workstation
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HP Apollo 9000 Series 700

HP HARDWARE SUPPORT SERVICES

Product Number	Description	02G	02A	02C	02L
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Graphics Upgrades:

98757A Upgrades TurboVRX graphics
subsystem for a Series 400 to Turbo
VRX graphics subsystems for a Series 700.

#001	70	56	45	33
#002	0	0	0	0
#003	65	51	40	31

X Terminals:

C2701B	700/RX BASE UNIT	6	5	4	3
#1A2	Delete Keyboard	0	0	0	0
#AN7	Delete 2MB SIMM	0	0	0	0
C2702B	700/RX X STATION	29	23	14	10
#1A2	Delete Keyboard	0	0	0	0
#AN7	Delete 2MB SIMM	0	0	0	0



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HP Apollo 9000 Series 700

HP SOFTWARE SUPPORT SERVICES

HP 9000 Software Support Program

HP offers you a complete contractual software support program designed to provide you with the level of support that best meets your individual needs. The three levels of support are:

HP TeamLine
HP ResponseLine (and HP Network ResponseLine)
HP BasicLine

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
- * Pro-active support planning
- * Added services for HP applications software
- * All services included in HP ResponseLine

HP ResponseLine and HP Network ResponseLine

HP ResponseLine and HP Network ResponseLine provide you with access to the HP Response Centers which are available for rapid customer assistance and quality solutions for your system needs. These services provide support for your operating system and applications, and allow you to choose between two levels of network support designed to meet the specific needs of your environment. When your HP 9000 systems operate independently, or are connected to other HP workstations, HP ResponseLine provides you with problem solving assistance. This enables you to call the HP Response Center with problems related to your operating system, HP to HP system connections and software applications. HP Network ResponseLine extends that coverage to support HP systems networked to both HP and other vendor workstations using hubs, bridges, repeaters, routers, gateways, switches and transmission lines.

What HP ResponseLine includes:

- * Access to the HP Response Centers for operating system, application and HP to HP connectivity fault isolation and problem solving assistance
- * Software License for updates
- * Guaranteed 2 hour call return
- * Electronic access to product and support information
- * Electronic access to patch information and code

What HP Network ResponseLine includes:

- * All the features of HP ResponseLine extended to HP supported network devices and network software
- * Single point of contact for multi-vendor network fault isolation
- * Multi-vendor network problem management

HP BasicLine

HP BasicLine software support service for HP 9000 computer systems provides on-line access to current, comprehensive support information along with detailed descriptions of problems and recommended solutions. This service also includes the software license for updates for all HP licensed software on your system (in conformance with the license terms that apply to underlying software). 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:

- * Software License for updates
- * On-line access to comprehensive problem solving information
- * On-line access to training schedules, product and support news



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HP Apollo 9000 Series 700

HP SOFTWARE SUPPORT SERVICES

HP 9000 SERIES 700 SOFTWARE SUPPORT - Monthly Service Charge				
SUPPORT LEVEL	HP TeamLine		HP ResponseLine	HP/VAB BasicLine
PRODUCT OPTION	H2010A + T00	H2584A + T00 (*UPGRADE*)	H2011B + H00 (US) H2011A + H00 (Eur/ICON)	H2012A + L00/ H2029A + L00
#0NA Series 700 (2 user)	\$190	\$110	\$80	\$35
#0NB Series 700 (8 user)	\$360	\$230	\$130	\$40
#0N1 SW DEV	\$160	\$90	\$70	N/A
*HP ResponseLine or HP Network ResponseLine is a prerequisite				

HP 9000 SERIES 700 SOFTWARE UPDATE SERVICES - Monthly Service Charge			
PRODUCT OPTION	HP/VAB OP Sys (**Updates**)	HP/VAB OP Sys Updates w/ CD-ROM Doc ***	HP/VAB SW Update
	H2070A + S00/ H2076A + S00	H2069A + S00/ H2077A + S00	H2014A + S00 H2034A + S00
#0NA Series 700 (2 user)	\$45**	\$45	\$20
#0NB Series 700 (8 user)	\$45**	\$45	\$20
Software Media			
#AAH DDS	\$15	\$15	N/A
#AAF CD-ROM	\$0	\$0	-\$5

**Does Not Include Operating System Documentation Updates - Must order Manual Update Service (see below)

*** Must order B1671C for HP LaserROM/UX CD-ROM retrieval software.

HP 9000 SERIES 700 MANUAL UPDATE SERVICES - Monthly Service Charge	
B2355A + Q00-0BD General Usage	\$5/mo
B2355A + Q00-0BE System Administration	\$20/mo
B2355A + Q00-0BL User Environment Documentation	\$5/mo
B2355A + Q00-0BM Starbase Programming	\$5/mo
B2355A + Q00-0BF General Programming	\$5/mo
B2355A + Q00-0BG User's Guides	\$5/mo
B2355A + Q00-0BT C/Ansi C	\$5/mo



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HP SUPPORT SERVICES

HP Apollo Custom Support Plan

For customers with unique needs that do not fall under one of the above alternatives, the HP Apollo Custom Support Plan is available. It allows us to work with you in planning and developing a solution that exactly fits your needs without losing the benefits of contractual support. This means you can budget in advance for support and include all support costs in your periodic payments.

An HP Apollo Custom Support Plan can be built on any of the contractual support offerings. In the plan, you can include anything from performance consulting and multiple system coordination to customer training and consulting services.

You should contact your local HP sales/support representative for assistance in developing an HP Apollo Custom Support plan.



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SERIES 700 DISCONTINUANCE

This listing is intended to provide an explicit statement of the product discontinuance required by the current restructuring of the Series 700 product family. All products listed in this section will be removed from the Corporate Price List on May 1, 1992. Orders for these products will be accepted until June 1, 1992 in the U. S., until August 1, in the rest of the world. All of these products have equivalent or better replacements in the active product offerings detailed elsewhere in this price guide. Customers are strongly urged to make their selections from those products.

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Model 730 Workstation Products for Discontinuance *Standard Configurations (support Factory Integrated Options)*

Model 730 GRX Grayscale Workstations

A1946A	GRX, 19" grayscale monitor, 16MB RAM, one 420MB internal SCSI II disk Available optionsAN8, AND, 112, AMH, AMB, ALE, ALF, ALG, AL9, 0DJ	Localization Kit See page A-5	\$20,890.	\$66.
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Model 730 CRX Color 2D/3D Workstations

A1950A	CRX, 19" color monitor, 16MB RAM, one 420MB internal SCSI II disk Available optionsAN8, AND, 112, AMH, AMB, ALE, ALF, ALG, AL9, 0DJ	Localization Kit See page A-5	\$27,390.	\$80.
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Model 730 CRX-24 Color 2D/3D Workstations

A2265A	24 plane CRX graphics, 19" color monitor, 16MB RAM, one 420MB internal SCSI II disk Available optionsAN8, AND, 112, AMH, AMB, ALE, ALF, ALG, AL9, 0DJ	Localization Kit See page A-5	\$34,390.	\$110.
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Model 730 CRX-24Z Color 2D/3D Workstations

A2266A	24 plane CRX graphics with accelerator and Z-buffer, 19" color monitor, 16MB RAM, one 420MB internal SCSI II disk Available optionsAN8, AND, 112, AMH, AMB, ALE, ALF, ALG, AL9, 0DJ	Localization Kit See page A-5	\$42,390.	\$135.
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Model 730 TVRX Color 3D Workstations

A2276A	TurboVRX T4, 19" color monitor, 16MB RAM, one 420MB internal SCSI II disk Available optionsAN8, AND, 112, AMH, AMB, ALE, ALF, ALG, AL9, 0DJ	Localization Kit See page A-5	\$99,390.	\$290.
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SERIES 700 DISCONTINUANCE

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Model 730 Factory Integrated Options for Discontinuance

Memory

#AN8	Add 16MB memory for a total of 32MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options AND or 112.</i>		\$2,400.	\$8.
#AND	Add 48MB memory for a total of 64MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options AN8 or 112.</i>		\$7,200.	\$24.
#112	Add 112MB memory for a total of 128MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options AN8 or AND.</i>		\$16,800.	\$56.



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SERIES 700 DISCONTINUANCE

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Model 750 Workstation Products for Discontinuance *Standard Configurations (support Factory Integrated Options)*

Model 750 CRX Color 2D/3D Workstations

A2278A	CRX, 19" color monitor, 32MB RAM, one 1.3GB SCSI II disk Available options ANN, 096, 224, 352, AMB, AMG, AMX, AM8, ALE, ALF, ALG, ALQ AL9, 0DJ	localization kit See page A-5	\$48,090.	\$98.
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Model 750 CRX-24 Color 2D/3D Workstations

A2267A	24-plane CRX graphics, 19" color monitor, 32MB RAM, one 1.3GB SCSI II disk Available options ANN, 096, 224, 352, AMB, AMG, AMX, AM8, ALE, ALF, ALG, ALQ AL9, 0DJ	localization kit See page A-5	\$55,090.	\$128.
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Model 750 CRX-24Z Color 2D/3D Workstations

A2268A	24-plane CRX graphics with accelerator and Z-Buffer, 19" color monitor, 32MB RAM, one 1.3GB SCSI II disk Available options ANN, 096, 224, 352, AMB, AMG, AMX, AM8, ALE, ALF, ALG, ALQ AL9, 0DJ	localization kit See page A-5	\$63,090.	\$153.
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Model 750 TVRX Color 3D Workstations

A2281A	TurboVRX T4, 19" color monitor, 32MB RAM, one 1.3GB SCSI II disk Available options ANN, 096, 224, 352, AMB, AMG, AMX, AM8, ALE, ALF, ALG, ALQ AL9, 0DJ	localization kit See page A-5	\$120,090.	\$308.
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HP Apollo 9000 Series 700

SERIES 700 DISCONTINUANCE

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Model 750 Factory Integrated Options for Discontinuance

Memory

#ANN	Add 32MB memory for a total of 64MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options 096, 224, 352.</i>		\$4,800.	\$16.
#096	Add 96MB memory for a total of 128MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options ANN, 224, 352.</i>		\$14,400.	\$48.
#224	Add 224MB memory for a total of 256MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options ANN, 096, 352.</i>		\$33,600.	\$112.
#352	Add 352MB memory for a total of 384MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options ANN, 096, 224.</i>		\$52,800.	\$176.



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SERIES 700 DISCONTINUANCE

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MULTI-MONITOR PA-RISC WORKSTATIONS FOR DISCONTINUANCE

Standard Configurations

(Including all associated Factory Integrated Options)

Model 730 Dual CRX Color 2D/3D Workstations

A2277A	Dual CRX board, two 19" color monitors, 16MB RAM, one 420MB disk Available options AN8, AND, 112, AMH, AMB, ALE, ALF, ALG, AL9	Localization Kit See page A-5	\$36,390.	\$119.
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Model 750 Dual CRX Color 2D/3D Workstations

A2282A	Dual CRX board, two 19" color monitors, 32MB RAM, one 1.3GB disk Available options ANN, 096, 224, 352, AMB, AMG, AMX, AM8, AL9, ALE, ALF, ALG, ALQ	Localization Kit See page A-5	\$57,090.	\$137.
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HP Apollo 9000 Series 700

Configuration Guide

System Localization

Workstation Localization Kit (Must Order)

Don't forget to order the right Localization kit for your Series 700 workstation. It includes the right power cables, keyboard, mouse, and localized documentation. There are now two basic Localization Kits: **A1099B** (with the HP-HIL keyboard) and **A2205A** (with the PC style keyboard). In order to receive complete workstation documentation, you must order one of these Localization kits. The **A1099A** localization kit is still available, but does not include documentation. When you have chosen the right kit, be sure to specify the country code option you desire.

The PC style keyboard (Localization Kit **A2205A**) is currently available in two local versions: English and German. It is combined with country specific power cords, and the same local language documentation that is included in the HP-UX Localization Kit (**A1099B**). These combinations are listed below.

Workstation Localization Kits and Options

<u>Prod./Option Number</u>	<u>Description</u>
A1099B	HP-UX Localization Kit with HP-HIL keyboard
Opt. ABA	North American Series 700 Localization Kit
Opt. ABC	Canadian-French Series 700 Localization Kit
Opt. ABD	German Series 700 Localization Kit
Opt. ABE	European Spanish Series 700 Localization Kit
Opt. ABF	French Series 700 Localization Kit
Opt. ABH	Dutch Series 700 Localization Kit
Opt. ABJ	Katakana Series 700 Localization Kit
Opt. ABM	Latin Spanish Series 700 Localization Kit
Opt. ABN	Norwegian Series 700 Localization Kit
Opt. ABP	Swiss German Series 700 Localization Kit
Opt. ABQ	Swiss French Series 700 Localization Kit
Opt. ABS	Swedish Series 700 Localization Kit
Opt. ABU	United Kingdom Series 700 Localization Kit
Opt. ABW	Belgian-Dutch 700 Localization Kit
Opt. ABX	Finnish Series 700 Localization Kit
Opt. ABY	Danish Series 700 Localization Kit
Opt. ABZ	Italian Series 700 Localization Kit
Opt. ABK	ICON Series 700 Localization Kit
Opt. AB0	Tiawanese Series 700 Localization Kit
Opt. AB1	Korean Series 700 Localization Kit
Opt. AR0	Kanji Series 700 Localization Kit



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HP Apollo 9000 Series 700

System Localization (Cont.)

Prod./Option Number Description

A2205A HP-UX Localization Kit with PC style keyboard

Opt. ABA	English Keyboard, N. American power cord
Opt. ABC	English Keyboard, N. American power cord
Opt. ABD	German Keyboard, German power cord
Opt. ABE	English Keyboard, Spanish power cord
Opt. ABF	English Keyboard, French power cord
Opt. ABH	English Keyboard, Dutch power cord
Opt. AB0	English Keyboard, Taiwanese power cord
Opt. ABJ	English Keyboard, Japanese power cord
Opt. ABK	English Keyboard, International power cord
Opt. ABM	English Keyboard, Latin Amer. power cord
Opt. ABN	English Keyboard, Norwegian power cord
Opt. ABP	German Keyboard, Swiss power cord
Opt. ABQ	English Keyboard, Swiss power cord
Opt. AB1	English Keyboard, Korean power cord
Opt. ABS	English Keyboard, Swedish power cord
Opt. ABU	English Keyboard, U.K. power cord
Opt. ABW	English Keyboard, Belgian power cord
Opt. ABX	English Keyboard, Finnish power cord
Opt. ABY	English Keyboard, Danish power cord
Opt. ABZ	English Keyboard, Italian power cord
Opt. AR0	English Keyboard, Japanese power cord

Power cord localization for Servers and (some) Peripherals

Server 700 systems and many peripherals require localization in order to specify the power cord appropriate to the country in which the product will be used. If you have a question about a particular peripheral, check with your order entry coordinator for the correct option code for that product. The codes provided here are correct for the Server 700 systems and many other peripherals.

Server/Power Cord Options (for Server 700 and peripherals requiring power cord localization)

#900	United Kingdom	#912	Denmark
#901	Australia, New Zealand	#917	Republic of South Africa, India
#902	European	#918	Japan
#903	North America, Taiwan, Korea	#919	Israel
#906	Switzerland		

HP Apollo 9000 Series 700

Configuring a Model 705 Workstation

Where to Start – Model 705 Factory-Integrated Systems

The Model 705 is only available in one standard configuration. You may choose the required options and have them integrated at the factory. Of course, HP also offers a variety of add-on options for future installation at the customer's site. These options help the customer expand his system as his requirements grow.

Model 705 Standard Configuration

<u>Product Number</u>	<u>Model Description</u>
A2648A	16" Color monitor, 16MB RAM, diskless
A2649A	19" Color monitor, 16MB RAM, diskless
A2289A	19" Grayscale monitor, 16MB RAM, diskless

The following pages will explain how the base system can be customized by adding factory-installed RAM, internal disk storage and other options. A listing of field installed options is provided, and a flow chart and listing of basic configuration constraints are included to help configure Model 705 systems. The ordering of external storage systems, the HP-UX operating system, and other software are covered separately, later in this section.

Adding More RAM

The Standard Configuration Model 705 comes with 16MB of RAM. You can also order Model 705s from the factory with 8MB – not available on color systems, 24MB, 32MB and 64MB of RAM by ordering one of the options listed below. By ordering an 8MB system, you are NOT able to order any mass storage options.

It should be carefully noted that memory boards are installed in groups of four. A 16MB system is shipped with four 4MB boards. It has four vacant memory slots for later use. Eight, 16 or 32 megabytes (using four 2MB, 4MB or 8MB boards) can be added to a 16MB system for a total of 24, 32 or 48 megabytes. A 24MB system is shipped with four 4MB boards and four 2MB boards. Such configurations will occupy all eight memory slots. To add memory to a 24MB system, the four existing boards must be removed. Accordingly, it is recommended that a customer anticipating a future need for more than 24MB should purchase the Model 705 with 32MB, which will be configured with four 8MB boards.

<u>Option Number</u>	<u>Description</u>
Opt. 001	Delete 8MB RAM (Disallows mass storage options -- not available on color systems)
Opt. AN4	Add 8MB RAM (provides total system memory of 24MB)
Opt. AN8	Add 16MB RAM (provides total system memory of 32MB)
Opt. AND	Add 48MB RAM (provides total system memory of 64MB)

Adding Internal Storage

The 705 chassis has room for two internal hard disks, or one hard disk and one floppy, DDS 4mm Tape or CD-ROM drive. The model numbers for these devices are listed below. **If two hard disks drives are ordered as part of the system, they must both be 420MB disks. If someone wants a 420MB disk and a 210MB disk in a system, they must order one as a factory integrated option and the other as an add-on option for later installation. A system with one hard drive can have either a 210MB (not available on color systems) or a 420MB drive. The Model 705 is limited to one internal removable media device. Customers wanting two 420MB disks and a floppy, DDS 4mm tape or CD-ROM drive must order the appropriate external add-on option and attach it to the Model 705 external SCSI port.**

HP Apollo 9000 Series 700

Configuring a Model 705 Workstation

<u>Option Number</u>	<u>Description</u>
Opt. AM0	Add 210MB SCSI-II Disk Drive -- not available on color systems
Opt. AMK	Add 420MB SCSI-II Disk Drive
Opt. AMB	Add 3.5" SCSI-II 1.44MB Floppy Disk Drive
Opt. AMW	Add 2GB 3.5" DDS 4mm SCSI-II Tape Drive
Opt. AM8	Add 600MB 5.25" CD-ROM SCSI-II Drive

Other Options

Thinnet Ethernet is standard on all Series 700 workstations and servers, but if you want to run Ethernet through Thicknet or any other media you must order the LAN AUI configuration option below.

HP-UX 8.07 run-time instant ignition is available for systems with factory integrated 420MB disk.

NOTE: Each customer must order HP-UX media and documentation for each site.

<u>Option Number</u>	<u>Description</u>
Opt. AL9	LAN AUI configuration (activates AUI port - requires external MAU)
Opt. 0DJ	Instant Ignition HP-UX 8.07 (Run-time)

Field-Installed Model 705 Options

To enable customers to expand or upgrade their system over time, HP has made available a series of add-on products. These products can be installed in the field by either **HP service engineers or the customer**. When ordering, be careful not to exceed the maximum configuration limits of the Model 705 shown below. The add-on products are as follows:

<u>Prod./Option Number</u>	<u>Description</u>
A2216A	8MB RAM add-on
A2217A	16MB RAM add-on
A2218A	32MB RAM add-on
A2219A	Add 210MB SCSI-II disk (order for diskless systems only --not available on color systems)
A2221A	Add 420MB SCSI-II disk (order for system with no disks or with one 420MB disk)
A2223A	Add 1.4MB 3.5" floppy disk drive (order for system with no more than one disk)
A2224A	Add 600MB 5.25" CD ROM drive (order for system with no more than one disk)
A2274A	Add 2GB 3.5" DDS tape drive (order for system with no more than one disk)
A2275A	Add 4-8GB (w/compression) 3.5" DDS tape drive (order for system with no more than one disk)

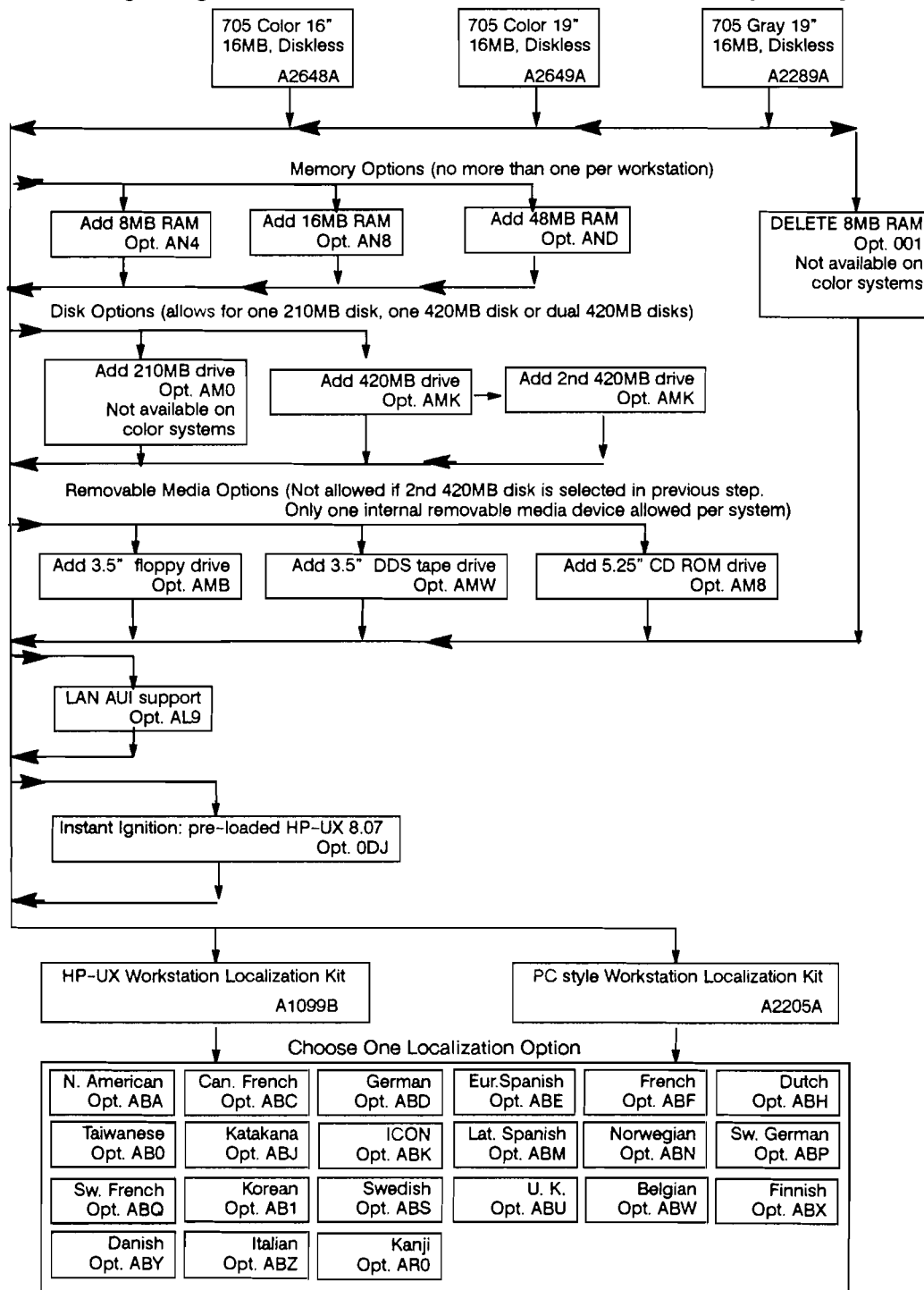


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HP Apollo 9000 Series 700

Configuring a Model 705 Workstation with Factory-integrated Options



Continue with External Storage, Software, and Peripherals



HP Apollo 9000 Series 700

Model 705 Configuration Constraints

<u>Minimum amount of RAM required to use SCSI Devices</u>	16MB	<u>Total No. of SCSI II buses</u>	1
<u>Total amount of RAM</u>	64MB	• One internal single-ended SCSI II bus	
<u>Internal SCSI II bus Configuration Constraints</u>			
• Max no. SCSI devices			7
• Max no. disk drives			7
Two internal 3 1/2 in. drives			
Five external 5 1/2 in. drives			
• Max no. CD-ROM drives			1
• Max no. DDS (4MM tape) drives			2
• Max no. 1/2-inch 9-track tape drives			2
• Max no. 650MB magneto-optical drives			1
• Max no. magneto-optical autochangers			1*
*Note: The magneto-optical autochangers use more than one SCSI drive address, which must be accounted for in the total of 7 allowed on the SCSI II bus.			
<u>Cable Length Constraints</u> (internal and external)			
• Internal single-ended SCSI II bus max total aggregate lengths			6 meters



HP Apollo 9000 Series 700

Configuring a Model 710 Workstation

Where to Start – Model 710 Bundled Systems and Factory-integrated Systems

The Model 710 is available in both bundled and standard configurations. The bundled configurations consist of six pre-defined packages that were designed to satisfy the requirements of most customers. You may find however, that your customer has a specific product requirement that is unmet by these bundles. In that case you will need to choose the required options and have them integrated at the factory. Of course, HP also offers a variety of add-on options for future installation at the customer's site. These options are made available to help the customer expand his system as his requirements grow.

If you choose to have HP integrate options at the factory, you need to start with one of three basic standard configurations. These three systems have 16MB of RAM, a monitor and are diskless.

Model 710 Standard Configurations

<u>Product Number</u>	<u>Model Description</u>
A2208A	19" Grayscale monitor, 16MB RAM, diskless
A2210A	16" Color monitor, 16MB RAM, diskless
A2213A	19" Color monitor, 16MB RAM, diskless

The following pages will explain how these base systems can be customized by adding factory-installed RAM, internal disk storage and other options. A listing of field installed options is provided, and a flow chart and listing of basic configuration constraints are included to help configure Model 710 systems. The ordering of external storage systems, the HP-UX operating system, and other software are covered elsewhere in this guide.

Adding More RAM

All Standard Configuration (non-bundled) Model 710s come with 16MB of RAM. You can also order Model 710s from the factory with 24MB, 32MB and 64MB of RAM by ordering one of the options listed below. It should be carefully noted that memory boards are installed in groups of four. A 16MB system is shipped with four 4MB boards. It has four vacant memory slots for later use. Eight, 16 or 32 megabytes (using four 2MB, 4MB or 8MB boards) can later be added to a 16MB system for a total of 24, 32 or 48 megabytes. A 24MB system is shipped with four 4MB boards and four 2MB boards. Such configurations will occupy all eight memory slots. For someone to add memory to a 24MB system, they will need to first remove four of the existing boards. Accordingly, it is recommended that a customer anticipating a future need for more than 24MB should purchase his Model 710 with 32MB, which will be configured with four 8MB boards.

<u>Option Number</u>	<u>Description</u>
Opt. AN4	Add 8MB RAM (provides total system memory of 24MB)
Opt. AN8	Add 16MB RAM (provides total system memory of 32MB)
Opt. AND	Add 48MB RAM (provides total system memory of 64MB)



HP Apollo 9000 Series 700

Configuring a Model 710 Workstation (Cont.)

Adding Internal Storage

The 710 chassis has room for two internal hard disks, or one hard disk and one removable media device – floppy, DAT or CD-ROM drive. The model numbers for these devices are listed below. **If two hard disk drives are ordered as part of the system, they must both be 420MB disks. If a 420MB disk and a 210MB disk are required in a system, one must be ordered as a factory integrated option and the other as an add-on option for later installation. A system with one hard drive can have either a 210MB or a 420MB drive. A Model 710 with one internal disk can accept one internal removable media device. Customers wanting two 420MB disks and a (removable media device floppy, DAT or CD-ROM drive) must order the appropriate external add-on option and attach it to the Model 710 external SCSI port.**

<u>Option Number</u>	<u>Description</u>
Opt. AM0	Add 210MB SCSI-II Disk Drive
Opt. AMK	Add 420MB SCSI-II Disk Drive
Opt. AMB	Add 3.5" SCSI-II 1.4MB Floppy Disk Drive
Opt. AMW	Add 2GB 3.5" DDS SCSI-II Tape Drive
Opt. AM8	Add 600MB 5.25" CD-ROM SCSI-II Drive

Other Options

Thinnet Ethernet is standard on all Series 700 workstations and servers, but if you want to run Ethernet through Thicknet or any other media you must order the LAN AUI configuration option below.

Both for bundled and standard configurations an HP-UX runtime 2 user license is included. Bundled configurations will be shipped with HP-UX 8.07 run-time preloaded. For standard configurations if you want HP-UX to be pre-loaded on the disk at the factory you must order the Instant Ignition option listed below.

<u>Option Number</u>	<u>Description</u>
Opt. AL9	LAN AUI configuration (activates AUI port – requires external MAU)
Opt. 0DJ	Instant Ignition HP-UX 8.07 (Run-time)

HP Apollo 9000 Series 700

Configuring a Model 710 Workstation (Cont.)

Field-installed Model 710 Options

To enable customers to expand or upgrade their system over time, HP has made available a series of add-on products. These products can be installed in the field by either **HP service engineers or the customer**. When ordering, be careful not to exceed the maximum configuration limits of the Model 710 shown below. The add-on products are as follows:

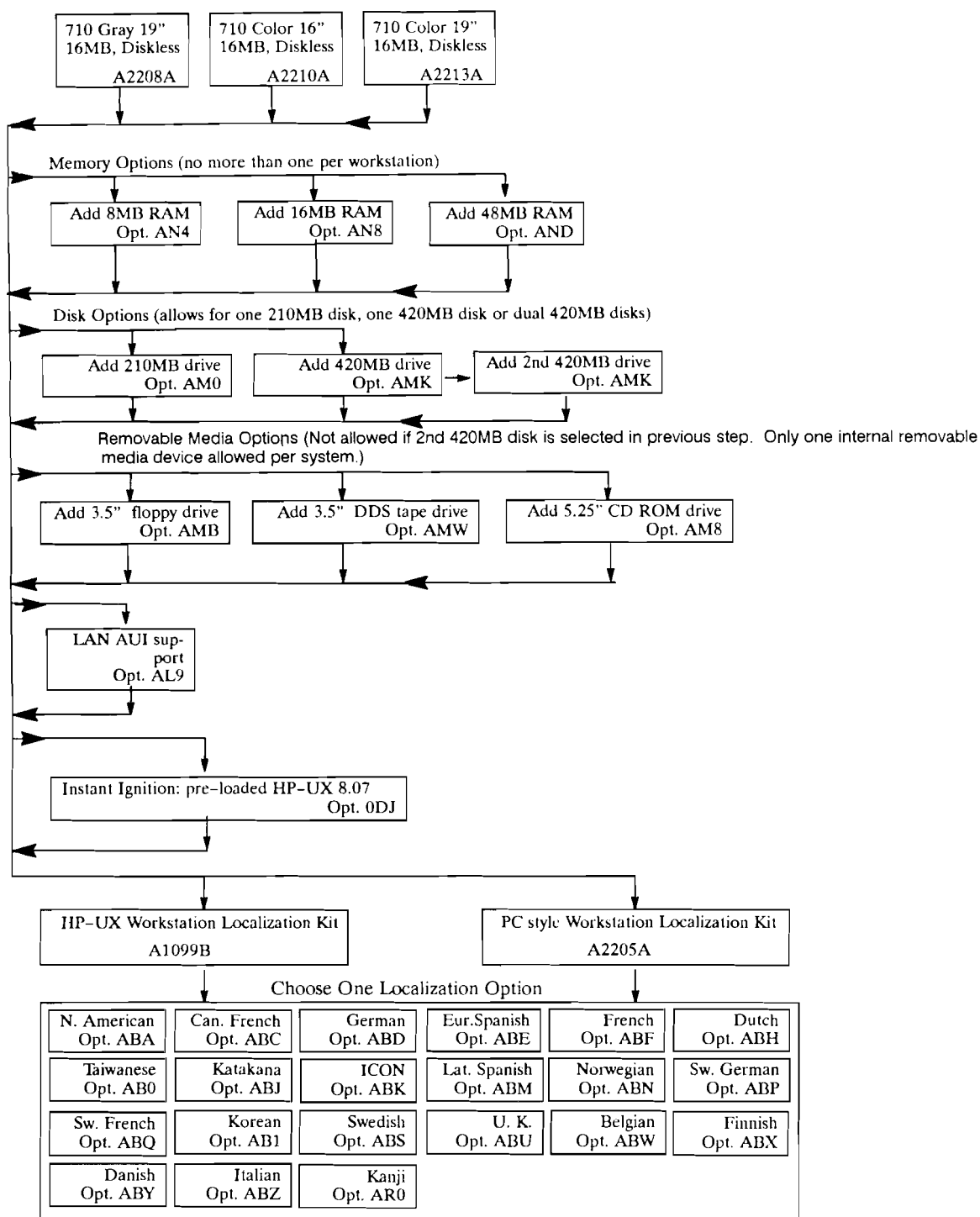
<u>Prod./Option Number</u>	<u>Description</u>
A2216A	8MB RAM add-on
A2217A	16MB RAM add-on
A2218A	32MB RAM add-on
A2219A	Add 210MB SCSI-II disk
A2221A	Add 420MB SCSI-II disk
A2223A	Add 1.4MB 3.5" floppy disk drive (order for system with no more than one disk)
A2224A	Add 600MB 5.25" CD ROM drive (order for system with no more than one disk)
A2274A	Add 2GB 3.5" DDS tape drive (order for system with no more than one disk)
A2275A	Add 2-8GB (w/compression) 3.5" DDS tape drive (order for system with no more than one disk)



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Configuring a Model 710 Workstation with Factory Integrated Options



Continue with External Storage, Software and Peripherals.



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Model 710 Configuration Constraints

<u>Total amount of RAM</u>	64MB	<u>Total No. of SCSI II buses</u>	1
		● One internal single-ended SCSI II bus	
<u>Internal SCSI II bus Configuration Constraints</u>			
● Max no. SCSI devices		7	
● Max no. disk drives		7	
Two internal 3 1/2 in. drives			
Five external 5 1/2 in. drives			
● Max no. CD-ROM drives		1	
● Max no. 4MM tape drives		2	
● Max no. 9-track tape drives		2	
● Max no. 650MB magneto-optical drives		1	
● Max no. magneto-optical autochangers		1*	
*Note: The Magneto-optical Autochangers use more than one SCSI drive address, which must be accounted for in the total of 7 allowed on the SCSI II bus.			
<u>Cable Length Constraints</u> (Combined Internal and External)			
● Internal single-ended SCSI II bus max total aggregate lengths		6 meters	



HP Apollo 9000 Series 700

Configuring a Model 720 Workstation

Where to Start – Model 720 Factory-integrated Systems

To configure a Model 720, you start with one of four basic standard configurations. These four systems each contain a 420MB disk, 16MB of RAM, and a graphics subsystem.

Model 720 Standard Configurations				
<u>Product Number</u>	<u>Model Description</u>	<u>Monitor</u>	<u>Memory</u>	<u>Disk</u>
A1929A	720 GRX	19" 1280x1024, 72Hz grayscale	16MB	420MB
A1933A	720 CRX	19" 1280x1024, 72Hz color	16MB	420MB
A2263A	720 CRX-24	19" 1280x1024, 72Hz color	16MB	420MB
A2264A	720 CRX-24Z	19" 1280x1024, 72Hz color	16MB	420MB

The following pages will explain how these base systems can be customized by adding factory-installed RAM, internal disk storage, EISA options, and other options. A listing of field installed options is provided, and a flow chart and listing of basic configuration constraints are included to help configure Model 720 systems. The ordering of external storage systems, the HP-UX operating system, and other software are covered elsewhere in this guide.

Adding More RAM

All Model 720s come with 16MB of RAM. You can also order Model 720s from the factory with 32, 64MB and 128MB of RAM by ordering one of the options listed below. Systems with other multiples of 16MB can be configured with field installed RAM, or by combining factory and field installed RAM options. **Note: to allow expansion to the maximum 128MB capacity, all 8MB memory boards must be replaced with 16MB boards. This will be done automatically for systems ordered with Opt. 112, but may require replacement of 8MB boards if done through field installed memory.**

<u>Option Number</u>	<u>Description</u>
Opt. AN8	Add 16MB RAM (provides total system memory of 32MB)
Opt. AND	Add 48MB RAM (provides total system memory of 64MB)
Opt. 112	Add 112MB RAM (provides total system memory of 128MB)

Adding Internal Storage

The 720 chassis has room for two internal hard disks, or one hard disk and one floppy drive. Since every system ships with a 420MB disk, only one internal storage option may be added. The factory-integrated internal storage options are summarized below.

<u>Option Number</u>	<u>Description</u>
Opt. AMH	Add Second 420MB SCSI Disk Drive
Opt. AMB	Add 3.5" 1.44MB Floppy Disk Drive



HP Apollo 9000 Series 700

Configuring a Model 720 Workstation (Cont.)

EISA Options

EISA expansion is offered as an option (**Opt. ALD**) on the Model 720 (EISA is standard on the Model 730 and Model 750). Once the EISA interface slot is added to the system, it provides access to the three factory integrated EISA connectivity options (**ALE, ALF, and ALG**). Check add-on options for other EISA cards available for installation in the field.

<u>Option Number</u>	<u>Description</u>
Opt. ALD	Add one EISA Interface slot
Opt. ALE	Add EISA SCSI II Host Adapter
Opt. ALF	Add EISA HP-IB Host Adapter
Opt. ALG	Add EISA LAN/9000

Other Options

Thinnet Ethernet is standard on all Series 700 workstations and servers, but if you want to run Ethernet through Thicknet or any other media you must order the LAN AUI configuration option below.

Finally, an HP-UX 8.07 license is included with each Series 700 workstation and server, but if you want it pre-loaded on the disk at the factory, then you must order the Instant Ignition option listed below.

<u>Option Number</u>	<u>Description</u>
Opt. AL9	LAN AUI configuration (activates AUI port - requires external MAU)
Opt. 0DJ	Instant Ignition HP-UX 8.07

Field-installed Model 720 Options

The following products can be installed in the field by either **HP service engineers or the customer**. When ordering, be careful not to exceed the maximum configuration limits of the Model 720 shown below.

<u>Prod./Option Number</u>	<u>Description</u>
A1979A	16MB RAM add-on
A1983A	Second 420MB SCSI disk (order for system with a single internal disk only)
A1984A	3.5" 1.4MB floppy disk drive (order for system with one internal disk only)
A1986A	EISA upgrade kit adds EISA slot to Model 720
25525A	EISA FAST SCSI II (Differential) adapter card
25560A	EISA HP-IB adapter card
25567A	EISA LAN/9000 802.3 Ethernet adapter card
Opt. 740	Add Thick MAU tap and 6 meter cable
Opt. 840	Add Ethertwist MAU and 1 meter cable
J2156A	FDDI/9000 for Series 700
Opt. 1AW	Delete Software Right-to-Use
J2159A	X.25/9000 for Series 700
Opt. 1AT	Add RS 232 Cable
Opt. 1AU	Add V.35 Cable
Opt. 1AW	Delete Software Right-to-Use
J2165A	IEEE 802.5 Token Ring 9000 for Series 700

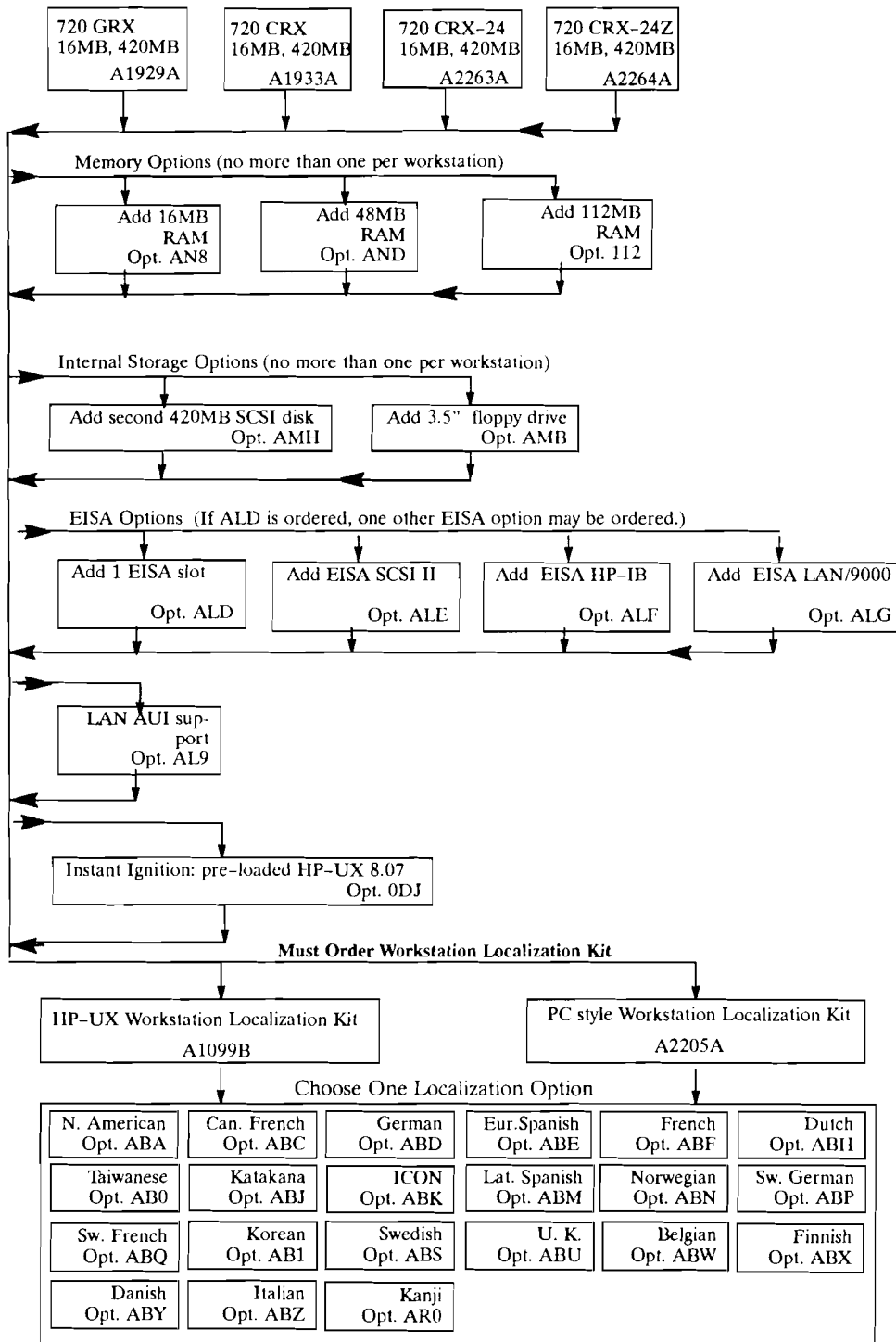


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Model 720 Workstations & Servers - Factory Configurations



• Continue with External Storage, Software and Peripherals.



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Model 720 Configuration Constraints

<u>Total amount of RAM</u>	128MB	<u>Total No. of SCSI II buses</u>	2
<u>Number of EISA Slots</u>	1 (optional)	• One standard single-ended SCSI II bus • One add-on Fast Differential SCSI II bus via optional EISA slot	
<u>Standard Single-Ended SCSI II bus Configuration Constraints</u>			
• Max no. SCSI devices			7
• Max no. disk drives			7
Two internal 3 1/2 in. drives			
Five external 5 1/2 in. drives			
• Max no. CD-ROM drives (external)			1
• Max no. 4MM DDS tape drives (External)			2
• Max no. 9-track tape drives (External)			2
• Max no. 650MB magneto-optical drives (External)			1
• Max no. magneto-optical autochangers (External)			1*
*Note: The Magneto-optical Autochangers use more than one SCSI drive address, which must be accounted for in the total of 7 allowed on the SCSI II bus.			
<u>Add-on differential SCSI II bus Configuration Constraints</u> (External, must order EISA upgrade)			
• Max no. SCSI drives (Fast/Differential disk drives, only)			7
• Max no. SCSI Disk Arrays			7
<u>Cable Length Constraints</u> (Internal and External)			
• Internal single-ended SCSI II bus max total aggregate lengths			6 meters
• Fast differential add-on SCSI II bus max total aggregate lengths			25 meters

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Configuring a Model 730 Workstation

Where to Start – Model 730 Factory-integrated Systems

To configure a Model 730, you start with one of five basic standard configurations. These five systems each contain a 420MB disk, 32MB of RAM, and a graphics subsystem.

Model 730 Standard Configurations				
<u>Product Number</u>	<u>Model Description</u>	<u>Monitor</u>	<u>Memory</u>	<u>Disk</u>
A1946B	720 GRX	19" 1280x1024, 72Hz grayscale	32MB	420MB
A1950B	720 CRX	19" 1280x1024, 72Hz color	32MB	420MB
A2265B	720 CRX-24	19" 1280x1024, 72Hz color	32MB	420MB
A2266B	720 CRX-24Z	19" 1280x1024, 72Hz color	32MB	420MB
A2276B	720 TVRX T4	19" 1280x1024, 72Hz color	32MB	420MB

The following pages will explain how these base systems can be customized by adding factory-installed RAM, internal disk storage, EISA options, and other options. A listing of field installed options is provided, and a flow chart and listing of basic configuration constraints are included to help configure Model 730 systems. The ordering of external storage systems, the HP-UX operating system, and other software are covered elsewhere in this guide.

Adding More RAM

All Model 730s come with 32MB of RAM. You can also order Model 730s from the factory with 64MB and 128MB of RAM by ordering one of the options listed below. Systems with other multiples of 16MB can be configured with field installed RAM, or by combining factory and field installed RAM options.

<u>Option Number</u>	<u>Description</u>
Opt. ANN	Add 32MB RAM (provides total system memory of 64MB)
Opt. ANY	Add 96MB RAM (provides total system memory of 128MB)

Adding Internal Storage

The 730 chassis has room for two internal hard disks, or one hard disk and one floppy drive. Since every system ships with a 420MB disk, only one internal storage option may be added. The factory-integrated internal storage options are summarized below.

<u>Option Number</u>	<u>Description</u>
Opt. AMH	Add Second 420MB SCSI Disk Drive
Opt. AMB	Add 3.5" 1.44MB Floppy Disk Drive

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Configuring a Model 730 Workstation (Cont.)

EISA Options

EISA expansion is standard on the Model 730. It provides access to the three factory integrated EISA connectivity options listed below. Check add-on options for other EISA cards available for installation in the field.

<u>Option Number</u>	<u>Description</u>
Opt. ALE	Add EISA SCSI II Host Adapter
Opt. ALF	Add EISA HP-IB Host Adapter
Opt. ALG	Add EISA LAN/9000

Other Options

Thinnet Ethernet is standard on all Series 700 workstations and servers, but if you want to run Ethernet through Thicknet or any other media you must order the LAN AUI configuration option below.

Finally, an HP-UX 8.07 license is included with each Series 700 workstation and server, but if you want it pre-loaded on the disk at the factory, then you must order the Instant Ignition option listed below.

<u>Option Number</u>	<u>Description</u>
Opt. AL9	LAN AUI configuration (activates AUI port - requires external MAU)
Opt. 0DJ	Instant Ignition HP-UX 8.07

Field-installed Model 730 Options

The following products can be installed in the field by either **HP service engineers or the customer**. When ordering, be careful not to exceed the maximum configuration limits of the Model 730 shown below.

<u>Prod./Option Number</u>	<u>Description</u>
A1979A	16MB RAM add-on
A1983A	Second 420MB SCSI disk (order for system with a single internal disk only)
A1984A	3.5" 1.4MB floppy disk drive (order for system with one internal disk only)
25525A	EISA FAST SCSI II (Differential) adapter card
25560A	EISA HP-IB adapter card
25567A	EISA LAN/9000 802.3 Ethernet adapter card
Opt. 740	Add Thick MAU tap and 6 meter cable
Opt. 840	Add Ethertwist MAU and 1 meter cable
J2156A	FDDI/9000 for Series 700
Opt. 1AW	Delete Software Right-to-Use
J2159A	X.25/9000 for Series 700
Opt. 1AT	Add RS 232 Cable
Opt. 1AU	Add V.35 Cable
Opt. 1AW	Delete Software Right-to-Use
J2165A	IEEE 802.5 Token Ring 9000 for Series 700

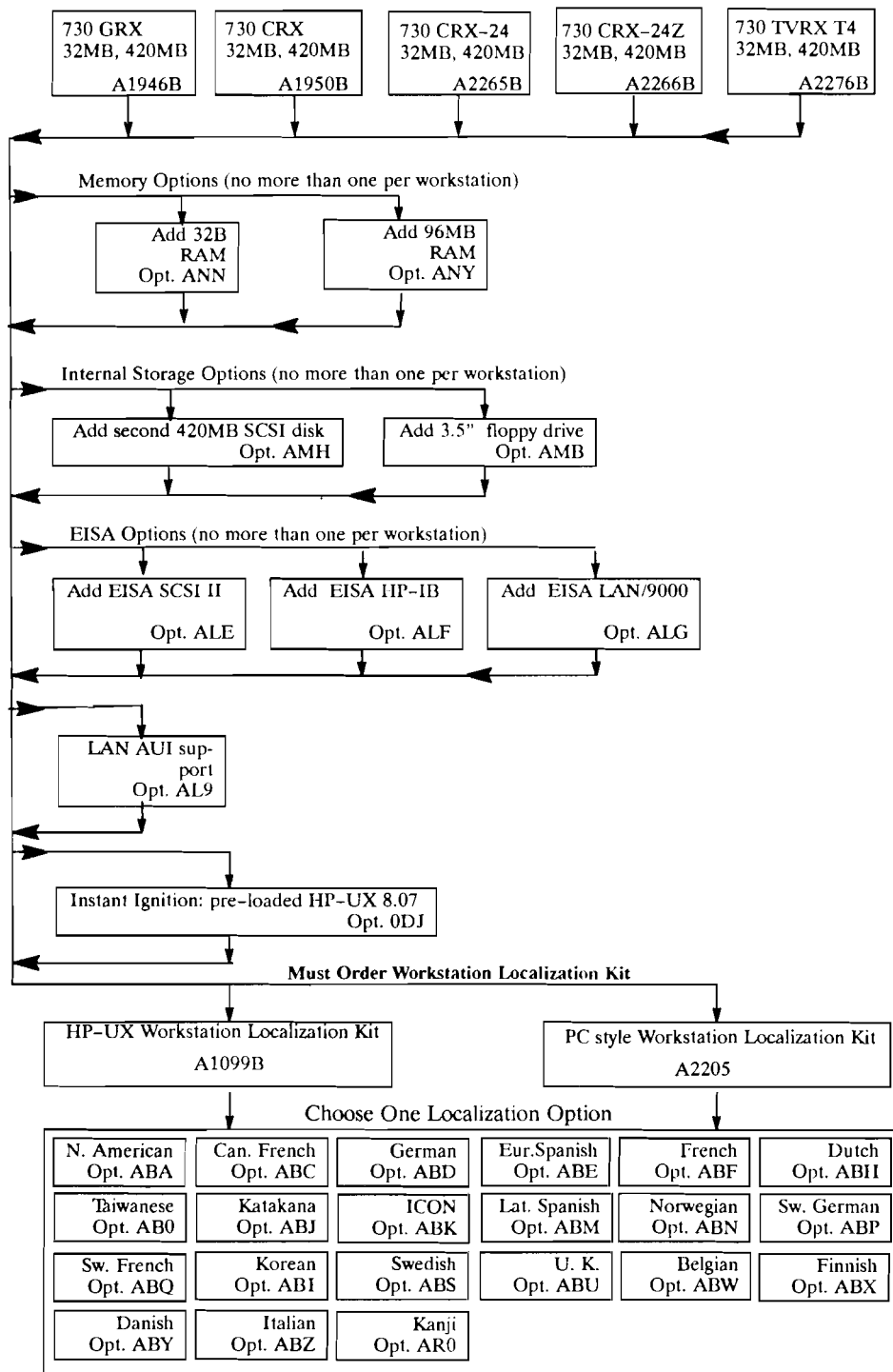


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Model 730 Workstations & Servers – Factory Configurations



Continue with External Storage, Software, and Peripherals



HP Apollo 9000 Series 700

Model 730 Configuration Constraints

<u>Total amount of RAM</u>	128MB	<u>Total No. of SCSI II buses</u>	2
<u>Number of EISA Slots</u>	1 (standard)	• One standard internal single-ended SCSI II bus • One add-on external Fast Differential SCSI II bus via EISA slot	
<u>Standard Single-Ended SCSI II bus Configuration Constraints</u>			
• Max no. SCSI devices			7
• Max no. disk drives			7
Two internal 3 1/2 in. drives			
Five external 5 1/2 in. drives			
• Max no. CD-ROM drives (External)			1
• Max no. 4MM DDS tape drives (External)			2
• Max no. 9-track tape drives (External)			2
• Max no. 650MB magneto-optical drives (External)			1
• Max no. magneto-optical autochangers (External)			1*
• Max no. 3.5" Floppy Drive			1
*Note: The Magneto-optical Autochangers use more than one SCSI drive address, which must be accounted for in the total of 7 allowed on the SCSI II bus.			
<u>External add-on differential SCSI II bus Configuration Constraints</u>			
• Max no. SCSI drives (Fast/Differential disk drives, only)			7
• Max no. SCSI Disk Arrays (addressed as single device)			7
<u>Cable Length Constraints</u> (Internal and External)			
• Standard single-ended SCSI II bus max total aggregate lengths			6 meters
• Fast differential add-on SCSI II bus max total aggregate lengths			25 meters



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Configuring a Model 750 Workstation

Model 750 Factory-integrated Systems – Where to Start

To configure a Model 750, you start with one of four basic standard configurations. These systems include 64MB of RAM, a graphics subsystem and a 1.3GB disk. The standard configurations are listed below.

Model 750 Standard Configurations

<u>Product Number</u>	<u>Model Description</u>	<u>Monitor</u>	<u>Memory</u>	<u>Disk</u>
A2278B	750 CRX	19" 1280x1024, 72Hz color	64MB	1.3GB
A2267B	750 CRX-24	19" 1280x1024, 72Hz color	64MB	1.3GB
A2268B	750 CRX-24Z	19" 1280x1024, 72Hz color	64MB	1.3GB
A2281B	750 TVRX T4	19" 1280x1024, 72Hz color	64MB	1.3GB

The following pages will explain how these base systems can be customized by adding factory installed RAM, internal disk storage, EISA options and other factory installed options. A flow chart and a listing of basic configuration constraints are included to help configure Model 750 systems.. The ordering of external storage systems, the HP-UX operating system, and other software are covered elsewhere in this guide.

Adding More RAM

All Model 750s come with 64MB of RAM. You can also order Model 750s from the factory with 128MB, 256MB, or 384MB of RAM by ordering one of the options listed below. Systems with other multiples of 32MB can be configured with field installed RAM, or by combining factory and field installed RAM options.

<u>Option Number</u>	<u>Description</u>
Opt. ANQ	Add 64MB RAM (provides total system memory of 128MB)
Opt. ANW	Add 192MB RAM (provides total system memory of 256MB)
Opt. ANX	Add 320MB RAM (provides total system memory of 384MB)

Adding Another Internal Hard Disk or Removable Media

All Model 750 base configurations come with an initial 1.3GB disk drive. The factory will install a second 1.3 GB drive, and/or any of the factory installed removable media options listed below. Only one of each option may be ordered, and the floppy (Opt. AMB) and 4mm DDS tape drive (Opt. AMX) cannot be ordered for the same system. Field installed removable media products offer further configuration options.

<u>Option Number</u>	<u>Description</u>
Opt. AMG	Add 1.3GB SCSI Disk Drive
Opt. AMX	Add 4mm DDS - DC with data compression
Opt. AM8	Add CD-ROM
Opt. AMB	Add 3.5" 1.4MB Floppy Disk Drive



HP Apollo 9000 Series 700

Configuring a Model 750 Workstation (Cont).

EISA Options

Four EISA expansion slots are standard on the Model 750. No more than two FDDI cards may be ordered per system. You can order any other combination of up to four of the factory integrated EISA connectivity options listed below. Check add-on options for other EISA cards available for installation in the field.

<u>Option Number</u>	<u>Description</u>
Opt. ALE	Add EISA SCSI II Host Adapter
Opt. ALF	Add EISA HP-IB Host Adapter
Opt. ALG	Add EISA LAN/9000
Opt. ALQ	Add EISA FDDI/9000

Other Factory-installed Options

Thinnet Ethernet is standard on the Model 750, but if you want to run Ethernet through Thicknet or any other media, you must order the LAN AUI configuration option below.

Finally, an HP-UX 8.07 license is included with each model 750, but if your customer wants it pre-loaded on the 750's disk at the factory then you must order that option listed below.

<u>Option Number</u>	<u>Description</u>
Opt. AL9	LAN AUI Configuration (activates AUI port – requires external MAU)
Opt. 0DJ	Instant Ignition HP-UX 8.07

Field-installed Model 750 Options

The following products can be installed in the field by either **HP service engineers or the customer**. When ordering, be careful not to exceed the maximum configuration limits of the Model 750 shown below.

<u>Prod./Option Number</u>	<u>Description</u>
A2513A	64MB RAM add-on
A1989A	Second 1.3GB SCSI disk
A1985A	Add 600MB CD-ROM Drive
A2274A	Add 4mm DDS tape drive
A2275A	Add 4mm DDS tape drive with data compression
A1968A	3.5" 1.4MB floppy disk drive (order for system with one internal disk only)
25525A	EISA FAST SCSI II (Differential) adapter card
25560A	EISA HP-IB adapter card
25567A	EISA LAN/9000 802.3 Ethernet adapter card
Opt. 740	Add Thick MAU tap and 6 meter cable
Opt. 840	Add Ethertwist MAU and 1 meter cable
J2156A	FDDI/9000 for Series 700
Opt. 1AW	Delete Software Right-to-Use
J2159A	X.25/9000 for Series 700
Opt. 1AT	Add RS 232 Cable
Opt. 1AU	Add V.35 Cable
Opt. 1AW	Delete Software Right-to-Use
J2165A	IEEE 802.5 Token Ring 9000 for Series 700

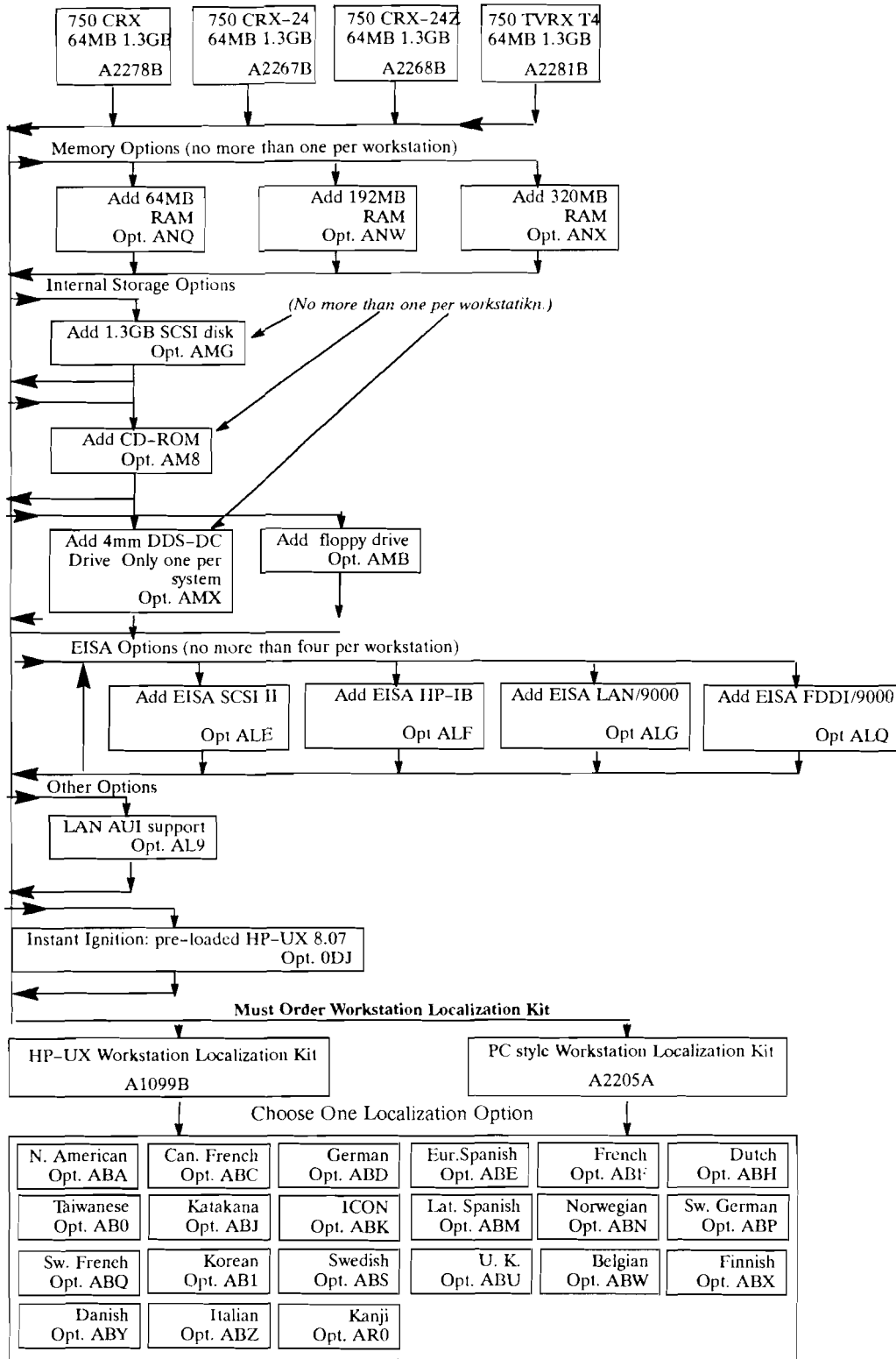


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Model 750 Workstations – Factory Configurations



● Continue with External Storage, Software, and Peripherals

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Model 750 Configuration Constraints

<u>Total amount of RAM</u>	384MB	<u>Total No. of SCSI II buses</u>	5
<u>Number of EISA Slots</u>	4 (standard)	● One Standard Internal single-ended SCSI II bus ● Up to 4 add-on External Fast Differential SCSI II buses via optional EISA/SCSI cards	
<u>Standard Single-Ended SCSI II bus Configuration Constraints</u>			
● Max no. SCSI devices		7	
● Max no. hard disk drives		7	
Two internal 5-1/4 in. drives			
Five external 5 1/4 in. drives			
● Max no. floppy disk drive		1	
● Max no. CD-ROM drives		1	
● Max no. 4MM DDS tape drives (1 Internal)		2	
● Max no. 9-track tape drives (External)		2	
● Max no. 650MB magneto-optical drives (External)		1	
● Max no. magneto-optical autochangers (External)		1*	
● Max no. 3.5" Floppy disk drive		1	
*Note: The Magneto-optical Autochangers use more than one SCSI drive address, which must be accounted for in the total of 7 allowed on the SCSI II bus.			
<u>External add-on differential SCSI II bus Configuration Constraints (per bus)</u>			
● Max no. SCSI drives (Fast/Differential disk drives, only)		7	
● Max no. SCSI Disk Arrays (addressed as single device)		7	
<u>Cable Length Constraints (Internal and External)</u>			
● Standard single-ended SCSI II bus max total aggregate lengths		6 meters	
● Fast differential add-on SCSI II bus max total aggregate lengths		25 meters	

HP Apollo 9000 Series 700

Configuring a Series 700 Server

The Series 700 Server Family consists of the Server 700 Models 720, 730, 750 and 720 Optical Storage Server. The following pages will explain how these systems can be customized by adding factory installed RAM, internal disk storage, EISA options and other factory installed options. A flow chart and a listing of basic configuration constraints are included to help configure the server systems. The ordering of external storage systems, the HP-UX operating system, and other software are covered elsewhere in this guide.

Series 700 Servers Factory-integrated Systems - Where to Start

To configure a Series 700 Server, you start with the basic standard configuration. These systems are configured as listed below:

Series 700 Server Standard Configurations

<u>Product Number</u>	<u>Model Description</u>	<u>Memory</u>	<u>Disk</u>	<u>CD ROM</u>	<u>4mm DDS tape</u>
A2283A	Server Model 750	64MB	1.3GB	Yes	Yes, w/ Data Comp
A2284A	Server Model 730	64MB	840MB	Yes	Yes
A2286A	Server Model 720	32MB	420MB	Yes	Yes

In addition to the above, there is a Structured Solution Package or SSP for the Server 700 Model 720 Optical Storage Server. This system along with the other Series 700 Servers, is an important solution to a workstation customer's server needs. It is fully configured, and should meet most requirements as it is structured. If additional options are required, however, they can be ordered from the list of available add-ons. Structured Solution Packages do not have Factory Integrated Options other than those included specifically in the package.

Model 720 Optical Storage System Structured Solution Package

<u>Product Number</u>	<u>Model Description</u>	<u>Memory</u>	<u>Disk</u>	<u>CD ROM</u>	<u>4mm DAT tape</u>	<u>Mag. Opt Jukebox</u>
C2455A	Server Model 720 OSS	32MB	2.1GB	No	Yes	20 GB

Adding More RAM

The Series 700 Server base systems all are configured with more RAM than their workstation counterparts. The Model 720 Server systems each come with 32MB of RAM while the 730 and 750 Servers come with 64MB. You can also order Series 700 Servers from the factory with additional memory if required, by ordering one of the options listed below.

The Series 750 Server is available with factory installed memory configurations of 64MB, 128MB, 256MB or 384MB. The Series 730 Server is available with memory configurations of 64MB or 128MB, and the the Series 720 Server is available with with factory installed memory configurations of 32MB, 64MB or 128MB.

Systems with other multiples of 32MB can be configured with field installed RAM, or by combining factory and field installed RAM options. **Note: to allow expansion to the maximum 384MB capacity on the Model 750 Server, all 16MB memory boards must be replaced with 32MB boards. This will be done automatically for systems ordered with Opt. ANW (add 192MB for a total of 256MB) or Opt. ANX (add 320MB for a total of 384MB), but may require replacement of 16MB boards if done through field installed memory.**



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To allow expansion of Model 720 and 730 Servers to 128MB, all 8MB boards must be replaced.

<u>Option Number</u>	<u>Description</u>	<u>Server Platform</u>
Opt. ANQ	Add 64MB RAM (provides total system memory of 128MB)	Server 750
Opt. ANW	Add 192MB RAM (provides total system memory of 256MB)	Server 750
Opt. ANX	Add 320MB RAM (provides total system memory of 384MB)	Server 750
Opt. ANQ	Add 64MB RAM (provides total system memory of 128MB)	Server 730
Opt. ANN	Add 32MB RAM (provides total system memory of 64MB)	Server 720
Opt. ANY	Add 96MB RAM (provides total system memory of 128MB)	Server 720

Adding Another Internal Hard Disk or Removable Media

Since all Series 700 Server base configurations come with internal hard disk drives, CD-ROM, and 4mm DDS tape drives, there is very limited flexibility for adding internal storage devices. The only options which can be added are a second 420MB disk or a floppy drive for the Model 720 Server and a 1.3GB disk for the Model 750 Server – all of which can be ordered and configured at the factory. Field installed external storage products offer further configuration options.

<u>Option Number</u>	<u>Description</u>	<u>Server Platform</u>
Opt. AMG	Add 1.3GB SCSI Disk Drive	Server 750
Opt. AMB	Add 3.5" 1.4MB Floppy Disk Drive	Server 720
Opt. AMH	Second 420MB SCSI II Disk Drive	Server 720

EISA Options

One EISA expansion slot is standard on the Server 700 Model 720 and 730 and four are standard on the Server 700 Model 750. No more than two FDDI cards may be ordered per system and any one (except the FDDI controller) on the Model 720 or 730 Servers.

<u>Option Number</u>	<u>Description</u>	<u>Server Platform</u>
Opt. ALE	Add EISA SCSI II Host Adapter	Server 720/730/750
Opt. ALF	Add EISA HP-IB Host Adapter	Server 720/730/750
Opt. ALG	Add EISA 802.3 LAN/9000	Server 720/730/750
Opt. ALQ	Add EISA FDDI/9000	Server 750 only

Other Factory-installed Options

Thinnet Ethernet is standard on the Server 700 family, but if you want to run Ethernet through Thicknet or any other media, you must order the LAN AUI configuration option below.

Finally, an HP-UX 8.07 license is included with each Series 700 Server system, but if you want it pre-loaded at the factory then you must order the option listed below.

<u>Option Number</u>	<u>Description</u>
Opt. AL9	LAN AUI Configuration (activates AUI port – requires external MAU)
Opt. 0DJ	Instant Ignition HP-UX 8.07



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Field-installed Series 700 Server Options

The following products can be installed in the field by either **HP service engineers or the customer**. When ordering, be careful not to exceed the maximum configuration limits of the system shown below.

Series 700 Model 750

<u>Prod./Option Number</u>	<u>Description</u>
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A2513A	64MB RAM add-on
A1989A	Second 1.3GB SCSI disk (order for system with one internal disk only)
A1968A	3.5" 1.4MB floppy disk drive (order for system with one internal disk only)
25525A	EISA FAST SCSI II (Differential) adapter card
25560A	EISA HP-IB adapter card
25567A	EISA LAN/9000 802.3 Ethernet adapter card
Opt. 740	Add Thick MAU tap and 6 meter cable
Opt. 840	Add Ethertwist MAU and 1 meter cable
J2156A	FDDI/9000 for Series 700
Opt. 1AW	Delete Software Right-to-Use
J2159A	X.25/9000 for Series 700
Opt. 1AT	Add RS 232 Cable
Opt. 1AU	Add V.35 Cable
Opt. 1AW	Delete Software Right-to-Use
J2165A	IEEE 802.5 Token Ring 9000 for Series 700

Series 700 Server Model 730

<u>Prod./Option Number</u>	<u>Description</u>
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A1979A	16MB RAM add-on
25525A	EISA FAST SCSI II (Differential) adapter card
25560A	EISA HP-IB adapter card
25567A	EISA LAN/9000 802.3 Ethernet adapter card
Opt. 740	Add Thick MAU tap and 6 meter cable
Opt. 840	Add Ethertwist MAU and 1 meter cable
J2156A	FDDI/9000 for Series 700
Opt. 1AW	Delete Software Right-to-Use
J2159A	X.25/9000 for Series 700
Opt. 1AT	Add RS 232 Cable
Opt. 1AU	Add V.35 Cable
Opt. 1AW	Delete Software Right-to-Use
J2165A	IEEE 802.5 Token Ring 9000 for Series 700



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Series 700 Server Model 720

<u>Prod./Option Number</u>	<u>Description</u>
A1979A	16MB RAM add-on
A1983A	Second 420MB SCSI disk (order for system with a single internal disk only)
A1984A	3.5" 1.4MB floppy disk drive (order for system with one internal disk only)
25525A	EISA FAST SCSI II (Differential) adapter card
25560A	EISA HP-IB adapter card
25567A	EISA LAN/9000 802.3 Ethernet adapter card
Opt. 740	Add Thick MAU tap and 6 meter cable
Opt. 840	Add Ethertwist MAU and 1 meter cable
J2156A	FDDI/9000 for Series 700
Opt. 1AW	Delete Software Right-to-Use
J2159A	FDDI/9000 for Series 700
Opt. 1AT	Add RS 232 Cable
Opt. 1AU	Add V.35 Cable
Opt. 1AW	Delete Software Right-to-Use
J2165A	IEEE 802.5 Token Ring 9000 for Series 700



HP Apollo 9000 Series 700

External Storage

The Peripheral Support Matrix included below provides a quick reference tool for configuring external devices. For complete product and ordering information, please refer to the appropriate product literature. A few cautions and general directions, however, may help you successfully order these products.

External data storage for Series 700 is incorporated in the Series 6000 Model 1350SE Mass Storage System or in standalone modules. Standalone removable media options available are: DDS (4mm Tape, with and without data compression), CD-ROM, re-writable magneto-optical disk, magneto-optical autochangers, and 9-track tape drive. All SCSI-II standalone removable media drives, as well as the Model 1350SE which supports many of these same devices, plug into the standard SCSI connector integral to the Series 700.

Also, the fast differential SCSI-II disk tower (Model 1350SX) and disk arrays (Models 1350SA and 420SA) can be added with the optional EISA Fast Differential SCSI-II adapter card (part # 25525A). **This EISA SCSI-II card only supports fast SCSI-II disk drives and the new disk arrays, it does not support any other SCSI-II device.** All external storage systems are installed in the field.

The intent of the Series 700 is to reserve the standard integral "single-ended" SCSI II bus for removable media products (DDS, CD-ROM, Magneto-optical, etc.) and place the highest performance disk systems on the faster optional EISA Fast "differential " SCSI bus. This segregation of peripherals delivers maximum performance and expandability.

Caution - Ordering External Storage

For external storage, disk arrays and the Model 1350SE mass storage system are important new products for external storage. The ordering and configuration follows the structure of the Model 1350SX, rather than the one that was used for the Series 6000 Model 660s. Instead of ordering additional devices to fill the box as options to the base level box and disk, as with the Model 660s, additional devices are ordered for the disk arrays and the Model 1350SE as **upgrade products**. In order to tell the factory how you want these products configured, a few important conventions must be followed.

- (1) For every upgrade kit ordered, you must specify an installation option:

Opt. 0D1	Factory Installation of the upgrade into the base product <i>(the base product must be part of the same order)</i>
Opt. 0DF	Customer installation of the upgrade into the base product
Opt. 0DG	Field service installation of the upgrade into the base product

- (2) If more than one base product is ordered with upgrade kits for factory installation, upgrade kits and the base product into which they are to be installed must be in the same section of the order (ie. one base product and its upgrades per section).

or

Upgrade kits specifying factory installation must be ordered in exact multiples of the number of base products ordered. In this case, the upgrade kits will be distributed evenly across all units of the base product.

- (3) For the disk arrays (Models 1350SA and 420SA) and Model 1350SE mass storage system, a localization option must be specified in order to receive the owner's manual.

Peripheral Support Matrix

The complete set of external devices supported on Series 700 is listed in the chart on the next two pages.



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HP Apollo 9000 Series 700

Series 700 Peripheral Support Matrix

Item	Prod Num	Description	System Support				HP-UX Support	
<i>Internal Devices</i>			<i>Model 710</i>	<i>Model 720</i>	<i>Model 730</i>	<i>Model 750</i>	<i>8.05</i>	<i>8.07</i>
210MB disk	A1980A	3.5" 210MB SCSI-II Disk	-	yes	yes	-	yes	yes
	A1981A	3.5" 210MB SCSI-II Disk	-	yes	yes	-	yes	yes
	A2219A	3.5" 210MB SCSI-II Disk	yes	-	-	-	yes	yes
420MB disk	A1982A	3.5" 420MB SCSI-II Disk	-	yes	yes	-	yes	yes
	A1983A	3.5" 420MB SCSI-II Disk	-	yes	yes	-	yes	yes
	A2221A	3.5" 420MB SCSI-II Disk	yes	-	-	-	yes	yes
660MB disk	A1988A	5.25" 660MB SCSI-II Disk	-	-	-	yes	yes	yes
1.3GB disk	A1989A	5.25" 1.3GB SCSI-II Disk	-	-	-	yes	yes	yes
3.5" floppy	A1984A	1.4MB floppy	yes	yes	yes	yes	yes	yes
1.3GB DDS	A1990A	1.3GB DDS 4mm Tape	-	-	-	yes	yes	yes
2.0GB DDS	A2274A	2.0GB DDS 4mm Tape	yes	-	-	yes	-	yes
2-8GB DDS-DC	A2275A	2-8GB DDS with compression	yes	-	-	yes	-	yes
CDROM	A2224A	600MB CDROM	yes	-	-	yes	yes	yes
<i>External Disk</i>			<i>Model 710</i>	<i>Model 720</i>	<i>Model 730</i>	<i>Model 750</i>	<i>8.05</i>	<i>8.07</i>
Model 660s	C2213A	660MB DISnDAT	yes	yes	yes	yes	yes	yes
Model 1350SE	C2217T	1.35GB DISnDAT Tower	yes	yes	yes	yes	-	yes
Model 1350SX	C2482A	1.35GB Differential Drives	-	yes	yes	yes	yes	yes
Model 420SA	C2425JK	5x420MB Disk Array	-	yes	yes	yes	-	yes
Model 1350SA	C2427JK	5x1.35GB Disk Array	-	yes	yes	yes	-	yes
<i>External Removable Media</i>			<i>Model 710</i>	<i>Model 720</i>	<i>Model 730</i>	<i>Model 750</i>	<i>8.05</i>	<i>8.07</i>
CDROM standalone	A1999A	600MB CDROM	yes	yes	yes	yes	yes	yes
1.3GB DDS standalone	C1512A	1.3GB DDS 4mm Tape	yes	yes	yes	yes	yes	yes
2.0GB DDS standalone	C1520A	2.0GB DDS 4mm Tape	yes	yes	yes	yes	-	yes
2-8GB DDS standalone	C1521A	2-8 GB DDS with compression	yes	yes	yes	yes	-	yes
Re-writable optical drive	C1701A	650MB Magneto-optic drive (MOD)	yes	yes	yes	yes	yes	yes
20GB autochanger	C1700A	20GB MOD autochanger	yes	yes	yes	yes	yes	yes
57GB autochanger	C1704A	57GB MOD autochanger	yes	yes	yes	yes	-	yes
94GB autochanger	C1705A	94GB MOD autochanger	yes	yes	yes	yes	-	yes
1/4" CTAPE (67MB)	9144A	67MB HP-IB 1/4" tape	-	yes	yes	yes	yes	yes
1/4" CTAPE (133MB)	9145A	133MB HP-IB 1/4" tape	-	yes	yes	yes	yes	yes
1/2" 9-track tape drive	7980s	1/2" 9-track tape drive	yes	yes	yes	yes	-	yes
<i>EISA cards</i>			<i>Model 710</i>	<i>Model 720</i>	<i>Model 730</i>	<i>Model 750</i>	<i>8.05</i>	<i>8.07</i>
EISA SCSI-II	25525A	Fast differential SCSI-II	-	yes	yes	yes	yes	yes
EISA HPIB	25560A	HP-IB	-	yes	yes	yes	yes	yes
EISA LAN	25567A	Ethernet	-	yes	yes	yes	yes	yes
EISA FDDI	J2156A	Single Attach FDDI card	-	yes	yes	yes	-	yes
EISA 802.5	J2165A	802.5 (IBM) Token Ring	-	yes	yes	yes	-	yes
EISA X.25	J2159A	X.25 Wide Area Network Card	-	yes	yes	yes	-	yes
<i>Terminals</i>			<i>Model 710</i>	<i>Model 720</i>	<i>Model 730</i>	<i>Model 750</i>	<i>8.05</i>	<i>8.07</i>
HP 700/92-94	C1001A	Amber Display	yes	yes	yes	yes	yes	yes
HP 700/92-94	C1001G	Green Display	yes	yes	yes	yes	yes	yes
HP 700/92-94	C1001W	White Display	yes	yes	yes	yes	yes	yes
<i>Printers</i>			<i>Model 710</i>	<i>Model 720</i>	<i>Model 730</i>	<i>Model 750</i>	<i>8.05</i>	<i>8.07</i>
LaserJet IIP	33471A	RS232, Centronics	yes	yes	yes	yes	yes	yes
LaserJet IID	33447A	RS232, Centronics	yes	yes	yes	yes	yes	yes
LaserJet III	33450A	RS232, Centronics	yes	yes	yes	yes	yes	yes
PaintJet	3630A	RS232, Centronics	yes	yes	yes	yes	yes	yes
PaintJet XL	C1602A	RS232, Centronics	yes	yes	yes	yes	yes	yes
Line Matrix	2562C	RS232, Centronics	yes	yes	yes	yes	yes	yes
420 LPM Impact	2563C	RS232, Centronics	yes	yes	yes	yes	yes	yes
840 LPM Impact	2564C	RS232, Centronics	yes	yes	yes	yes	yes	yes
1200 LPM Impact	2566C	RS232, Centronics	yes	yes	yes	yes	yes	yes
1600 LPM Impact	2567C	RS232, Centronics	yes	yes	yes	yes	yes	yes

- means not supported

Any peripheral not listed
in this matrix is not supported



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HP Apollo 9000 Series 700

Series 700 Peripheral Support Matrix Continued

Item	Prod Num	Description	System Support				HP-UX Support	
<i>Plotters</i>			<i>Model 710</i>	<i>Model 720</i>	<i>Model 730</i>	<i>Model 750</i>	<i>8.05</i>	<i>8.07</i>
HP 7600 Model 250	C1625A	RS232 Cent. HPIB	yes	yes	yes	yes	yes	yes
HP 7600 Model 255	C1627A	RS232 Cent. HPIB	yes	yes	yes	yes	yes	yes
HP 7600 Model 355	C1620A	RS232 Cent. HPIB	yes	yes	yes	yes	yes	yes
ColorPro	7440A	RS232	yes	yes	yes	yes	yes	yes
HP 7475A	7475A	RS232	yes	yes	yes	yes	yes	yes
IIP 7550 Plus	7550B	RS232	yes	yes	yes	yes	yes	yes
DraftPro	7570A	RS232	yes	yes	yes	yes	yes	yes
DraftPro DXL	7575A	RS232	yes	yes	yes	yes	yes	yes
DraftPro EXL	7576A	RS232	yes	yes	yes	yes	yes	yes
DraftMaster SX	7595C	RS232	yes	yes	yes	yes	yes	yes
DraftMaster RX	7596C	RS232	yes	yes	yes	yes	yes	yes
DraftMaster MX	7599B	RS232	yes	yes	yes	yes	yes	yes
<i>HP-HIL Devices</i>			<i>Model 710</i>	<i>Model 720</i>	<i>Model 730</i>	<i>Model 750</i>	<i>8.05</i>	<i>8.07</i>
ID Module	46084A	9 user definable	yes	yes	yes	yes	yes	yes
Control Dial Module	46085A		yes	yes	yes	yes	yes	yes
Button Box – 32 keys	46086A		yes	yes	yes	yes	yes	yes
HP-UX Keyboard	46021A	21 language options	yes	yes	yes	yes	yes	yes
PC-AT Keyboard	C1429A	USA & German options only	yes	yes	yes	yes	–	yes
3 Button Mouse	46060B	stylus, cursor, cable tip-switch stylus tip-switch stylus 4 button cursor	yes	yes	yes	yes	yes	yes
3 Button Trackball	M1309A		yes	yes	yes	yes	yes	yes
Digitizer 11" x 11"	45911C		yes	yes	yes	yes	yes	yes
Digitizer ANSI A/ISO A4	46087C		yes	yes	yes	yes	yes	yes
Digitizer ANSI B/ISO A3	46088C		yes	yes	yes	yes	yes	yes
Digitizer ANSI A/ISO A4	46090C		yes	yes	yes	yes	yes	yes

- means not supported

Any peripheral not listed
in this matrix is not supported



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HP-UX

HP Apollo 9000 Series 400

WORKSTATIONS & SERVERS

INTRODUCTION

What is in this Guide

In this guide, you should find all the product ordering, pricing, and configuration information you need to order your Series 400 system with confidence. It includes:

- the workstations and servers for the Models 425e, 425t, 425s, and 433s
- the factory integrated options available for each model (installed prior to delivery)
- customer installable add-on options available for each model (installed by customer or HP service technician after delivery)
- upgrades
- hardcopy and other input/output peripherals
- cables
- software
- hardware and software support
- Configuration Guide

In addition, there are configuration charts, prerequisites and ordering instructions included at key points to assist you in configuring and ordering the system best suited to meet your needs.

How to Use this Guide

This guide is organized in three sections:

- HP-UX products
- Domain/OS products
- General Series 400 information

You should turn to the section of the Price Guide that describes the products for the workstation model you want to order, within the section for the operating system you select.

The sections of this guide that cover the workstation/server models (Model 425e, Model 425t, Model 425s, and Model 433s) are organized around the three categories of hardware from which you may want to order:

- 1) A fully operational basic workstation (including SPU, graphics, RAM, and, in most cases, a disk) is ordered on a single product number called a *Standard Configuration*. A *localization kit* must be ordered with each *Standard Configuration*.
- 2) Factory integrated *Configuration Options* are also available to provide a wide range of choices of system RAM, internal storage, and other options (installed prior to delivery).
- 3) Customer or field installable *Add-on Options* allow many of the same choices for configuration that are available with the factory integrated options, in case the decision to add functionality is made after the initial system has been installed. In addition, these options provide configuration choices not available with the factory integrated options.

In order to guide you through the simple steps of configuring your system, a *Factory Configuration Matrix*, is provided for each model. To determine if the combination of features you want is available in a factory integrated configuration, check the *Factory Configuration Matrix*. Most standard configurations and options can be completely configured at the factory. If not, choose from other options in the add-on section.

For your convenience a Series 400 Configuration Guide is included in this Price Guide at the end of the Series 400 section. It explains in more detail the full process for ordering a complete workstation system.

Now that your workstation is complete, turn to the other sections of the Series 400 Price Guide to add any further peripherals and the cables required to connect them, plus software.

A description of available support products for either operating system may be found in the support section of this price guide.



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HP-UX

HP Apollo 9000 Series 400

SERIES 400 WORKSTATION LOCALIZATION

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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WORKSTATION LOCALIZATION KITS

(MUST ORDER WITH EVERY SERIES 400 WORKSTATION)

A1099A HP-UX Localization kit. Includes keyboard, mouse and power cord.
Includes country specific keyboard and country specific power cord

Must order localization option. **\$100.**

Localized options #ABA through #AR0 (below) **N/C**

A1099B HP-UX Localization kit (HP-UX 8.0). Includes keyboard, mouse, power cord and HP-UX 8.0 "General Usage" documentation.
Includes country specific keyboard and country specific power cord

Must order localization option. **\$100.**

Localized options #ABA through #AR0 (below) **N/C**

#ABA	U.S. English	#ABK	ICON	#ABW	Belgian Dutch
#ABC	French Canadian	#ABM	Latin Spanish	#ABX	Finnish
#ABD	German	#ABN	Norwegian	#ABY	Danish
#ABE	European Spanish	#ABP	Swiss German	#ABZ	Italian
#ABF	European French	#ABQ	Swiss French	#AB0	Taiwan
#ABH	Dutch	#ABS	Swedish	#AB1	Korean
#ABJ	Katakana	#ABU	UK	#AR0	Kanji

A2205A HP-UX Localization kit with PC-style keyboard.
Includes PC-style keyboard, mouse, power cord. and HP-UX 8.0 "General Usage documentation".

Must order localization option. **\$100.**

Localized options #ABA and AR0 (below) **N/C**

#ABA	U.S. English: English Keyboard, N. American power cord	#ABP	Swiss/German: German Keyboard, Swiss power cord
#ABC	Canadian French: English Keyboard, N. American power cord	#ABQ	Swiss/French: English Keyboard, Swiss power cord
#ABD	German: German Keyboard, German power cord	#ABS	Swedish: English Keyboard, Swedish power cord
#ABE	European/Spanish: English Keyboard, Spanish power cord	#ABU	U.K.: English Keyboard, U.K. power cord
#ABF	European French: English Keyboard, French power cord	#ABW	Belgian/Dutch: English Keyboard, Belgian power cord
#ABH	Dutch: English Keyboard, Dutch power cord	#ABX	Finnish: English Keyboard, Finnish power cord
#ABJ	Katakana: English Keyboard, Japanese power cord	#ABY	Danish: English Keyboard, Danish power cord
#ABK	International: English Keyboard, International power cord	#ARZ	Italian: English Keyboard, Italian power cord
#ABM	Latin America: English Keyboard, Latin Amer. power cord	#AB0	Taiwanese: English Keyboard, Taiwanese power cord
#ABN	Norwegian: English Keyboard, Norwegian power cord	#AB1	Korean: English Keyboard, Korean power cord
		#AR0	Kanji: English Keyboard, Japanese power cord



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HP-UX

HP Apollo 9000 Series 400

Model 425e Desktop Workstations

System Standard Features:

- 25MHz MC68040 processor
- delivers 11 SPECmarks, 22 MIPS, and 2.6 MFLOPS
- 8MB ECC SIMM RAM, expandable to 48MB
- configurable with a maximum of 2 internal storage devices
- 3 asynchronous RS-232C ports
- 1 parallel (Centronics compatible) port
- 1 external SCSI port (support for a total of up to 7 devices - including internal)
- IEEE 802.3 Ethernet LAN interface configured with ThinLAN (may be converted optionally to LAN AUI)
- Audio I/O port
- HP-HIL port
- Apollo keyboard port
- auto selecting power supply 115V/230V
- operating environment: HP-UX 8.0 Run-Time, 2 user license-to-use
- Deskside Pedestal



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HP-UX HP Apollo 9000 Series 400

MODEL 425e WORKSTATIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Model 425e EVRX Grayscale Workstations (1280X1024)

A2130A	EVRX, 19" grayscale monitor, 8MB RAM, diskless Available options ANB, AL9	Localization Kit A1099A or A2205A See page B-2 HP-UX 8.0	\$5,390.	\$24.
A2131A	EVRX, 19" grayscale monitor, 8MB RAM, 210MB disk drive, HP-UX 8.0 Instant Ignition Available options ANB, AMB, AM8, AL9	Localization Kit A1099A or A2205A See page B-2 HP-UX 8.0	\$7,490.	\$37.
A2132A	EVRX, 19" grayscale monitor, 16MB RAM, 420MB disk drive, HP-UX 8.0 Instant Ignition Available options ANF, AMB, AM8, AL9	Localization Kit A1099A or A2205A See page B-2 HP-UX 8.0	\$8,990.	\$51.

Model 425e EVRX Color 2D Workstations (1024 X 768)

A2134A	EVRX, 16" color monitor, 8MB RAM, diskless Available options ANB, AL9	Localization Kit A1099A or A2205A See page B-2 HP-UX 8.0	7,390.	\$21.
A2135A	EVRX, 16" color monitor, 8MB RAM, 210MB disk drive, HP-UX 8.0 Instant Ignition Available options ANB, AMB, AM8, AL9	Localization Kit A1099A or A2205A See page B-2 HP-UX 8.0	\$9,490.	\$35.
A2136A	EVRX, 16" color monitor, 16MB RAM, 420MB disk drive, HP-UX 8.0 Instant Ignition Available options ANF, AMB, AM8, AL9	Localization Kit A1099A or A2205A See page B-2 HP-UX 8.0	\$10,990.	\$49.

Model 425e EVRX Color 2D Workstations (1280 X 1024)

A2139A	EVRX, 19" color monitor, 8MB RAM, diskless Available options ANB, AL9	Localization Kit A1099A or A2205A See page B-2 HP-UX 8.0	9,890.	\$36.
A2140A	EVRX, 19" color monitor, 16MB RAM, 210MB disk drive, HP-UX 8.0 Instant Ignition Available options ANF, AMB, AM8, AL9	Localization Kit A1099A or A2205A See page B-2 HP-UX 8.0	\$12,990.	\$55.
A2141A	EVRX, 19" color monitor, 16MB RAM, 420MB disk drive, HP-UX 8.0 Instant Ignition Available options ANF, AMB, AM8, AL9	Localization Kit A1099A or A2205A See page B-2 HP-UX 8.0	\$13,490.	\$65.



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HP-UX

HP Apollo 9000 Series 400

MODEL 425e WORKSTATIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425e FACTORY INTEGRATED OPTIONS

Memory

#ANB	Add 8MB memory for a total of 16MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation.</i>	Model 425e HP-UX diskless systems	\$1,000.	\$4.
#ANF	Add 8MB memory for a total of 24MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation.</i>	Model 425e HP-UX systems with disks	\$1,000.	\$4.

Internal Storage

#AMB	Add 1.4MB 3.5" SCSI floppy disk drive, factory integrated. <i>Maximum of one option AMB per workstation. May NOT be ordered concurrently with option AM8.</i>	Model 425e HP-UX systems with disks	\$500.	\$5
#AM8	Add 600MB SCSI CD-ROM, factory integrated. <i>Maximum of one option AM8 per workstation. May NOT be ordered concurrently with option AMB.</i>	Model 425e HP-UX systems with disks	\$1,000.	\$18.

Other Options

#AL9	Factory select LAN AUI configuration. This option overrides default ThinNET Ethernet connection.	External Transceiver Required.	N/C	N/C
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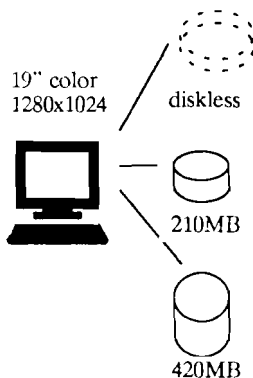
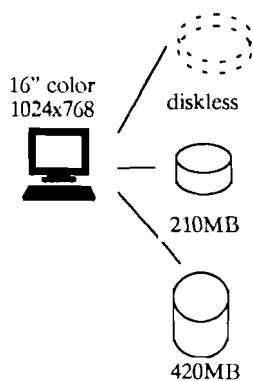
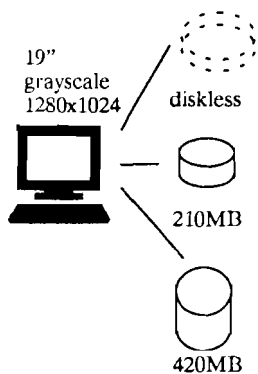
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HP-UX

HP Apollo 9000 Series 400

Model 425e Factory Integrated Configuration Matrix



		MEMORY		INTERNAL STORAGE		OTHER OPTIONS
		Only one memory option may be ordered per workstation.		No more than one of each available option may be ordered per workstation.		Order one only.
		Opt. ANB 16MB Total	Opt. ANF 24MB Total	Opt. AMB Floppy Disk	Opt. AM8 CD-ROM	Opt. AL9 AUI LAN
A2130A 8MB RAM	\$5,390	\$1,000				N/C
A2131A 8MB RAM 8.0 Inst. Ign.	\$7,490	\$1,000		\$500	\$1,000	N/C
A2132A 16MB RAM 8.0 Inst. Ign.	\$8,990		\$1,000	\$500	\$1,000	N/C
A2134A 8MB RAM	\$7,390	\$1,000				N/C
A2135A 8MB RAM 8.0 Inst. Ign.	\$9,490	\$1,000		\$500	\$1,000	N/C
A2136A 16MB RAM 8.0 Inst. Ign.	\$10,990		\$1,000	\$500	\$1,000	N/C
A2139A 8MB RAM	\$9,890	\$1,000				N/C
A2140A 16MB RAM 8.0 Inst. Ign.	\$12,990		\$1,000	\$500	\$1,000	N/C
A2141A 16MB RAM 8.0 Inst. Ign.	\$13,490		\$1,000	\$500	\$1,000	N/C



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HP Apollo 9000 Series 400

MODEL 425e WORKSTATIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425e ADD-ON OPTIONS (customer or field installed)

MEMORY

A2200A	4MB ECC SIMM RAM set add-on	Model 425e	\$1,000.	\$2.
A2201A	8MB ECC SIMM RAM set add-on	Model 425e	\$1,000.	\$4.
A2202A	16MB ECC SIMM RAM set add-on	Model 425e	\$2,000.	\$8.

INTERNAL STORAGE

A2071A	210MB internal SCSI Disk Drive <i>Maximum of two internal storage devices per workstation</i>	Model 425e	\$2,000.	\$14.
A2072A	420MB internal SCSI Disk Drive <i>Maximum of two internal storage devices per workstation</i>	Model 425e	\$2,500.	\$24.
A2073A	1.4MB 3.5" SCSI floppy Disk Drive <i>Maximum of two internal storage devices per workstation</i>	Model 425e	\$500.	\$5.
A2074A	600MB SCSI CD-ROM Drive <i>Maximum of two internal storage devices per workstation</i>	Model 425e	\$1,000.	\$18.
A2274A	2GB 3.5" DDS-format 4mm Drive <i>Must order #AHP</i>	Model 425e HP-UX 8.0	\$2,500.	\$26.
#AHP Upgrade kit for Model 425e			N/C	



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HP-UX

HP Apollo 9000 Series 400

Model 425t Desktop Workstations

System Standard Features

- 25MHz MC68040 processor
- delivers 11 SPECmarks, 22 MIPS, and 2.6 MFLOPS
- 8MB ECC RAM, expandable to 64MB
- configurable with a maximum of 2 internal disks
- 1 asynchronous RS-232C port
- 1 parallel (Centronics compatible) port
- 1 external SCSI port (support for a total of up to 7 devices - including internal)
- IEEE 802.3 Ethernet LAN interface configured with ThinLAN (may be converted optionally to LAN AUI)
- IEEE-488 standard speed HP-IB port
- HP-HIL port
- Apollo keyboard port
- auto selecting power supply 115V/230V
- operating environment: HP-UX 8.0 Run-Time, 2 user license-to-use
- Stand and labels for optional desktide use



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HP-UX

HP Apollo 9000 Series 400

MODEL 425t WORKSTATIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Model 425t VRX Monochrome Workstations (1280X1024)

A2100A	VRX, 19" monochrome monitor, 8MB RAM, diskless, HP-IB Available options ANB, AL9	Localization Kit A1099A See page B-2 HP-UX 7.05	\$8,890.	\$27.
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Model 425t GRX Grayscale Workstations (1280X1024)

A2162A	GRX, 19" grayscale monitor, 8MB RAM, diskless, HP-IB Available options ANB, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$8,890.	\$31.
A2163A	GRX, 19" grayscale monitor, 16MB RAM, 420MB disk drive, HP-IB, HP-UX 8.0 Instant Ignition Available options AMT, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$12,690.	\$59.

Model 425t VRX Color 2D Workstations (1280 X 1024)

A2102A	VRX, 16" color monitor, 8MB RAM, diskless, HP-IB Available options ANB, AL9	Localization Kit A1099A See page B-2 HP-UX 7.05	\$10,890.	\$22.
A2103A	VRX, 19" color monitor, 8MB RAM, diskless, HP-IB Available options ANB, AL9	Localization Kit A1099A See page B-2 HP-UX 7.05	\$12,890.	\$42.
A2164A	VRX, 19" color monitor, 16MB RAM, 420MB disk drive, HP-IB, HP-UX 8.0 Instant Ignition Available options AMT, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$16,690.	\$73.

Model 425t CRX Color 2D Workstations (1280 X 1024)

A2165A	CRX, 19" color monitor, 8MB RAM, diskless, HP-IB Available options ANB, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$12,890.	\$45.
A2166A	CRX, 19" color monitor, 16MB RAM, 420MB disk drive, HP-IB, HP-UX 8.0 Instant Ignition Available options AMT, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$16,690.	\$73.

Model 425t Personal VRX P3 3D Workstations (1280 X 1024)

A2167A	Personal VRX P3, 19" color monitor, 16MB RAM, 420MB disk, HP-IB, HP-UX 8.0 Instant Ignition, Personal Visualizer Available options AMT, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$30,690.	\$106.
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HP Apollo 9000 Series 400

MODEL 425t WORKSTATIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425t FACTORY INTEGRATED OPTIONS

Memory

#ANB	Add 8MB memory for a total of 16MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation.</i>	Model 425t diskless systems	\$1,200.	\$6.
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Internal Storage

#AMT	Add 420MB SCSI disk drive, factory integrated. <i>Maximum of one option AMT per workstation.</i>	Model 425t systems with 420MB disks	\$2,500.	\$24
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Other Options

#AL9	Factory select LAN AUI configuration. <i>This option overrides default ThinNET Ethernet connection.</i>	External Transceiver Required.	N/C	N/C
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HP Apollo 9000 Series 400

Model 425t Factory Integrated Configuration Matrix

19" mono VRX
1280x1024



diskless

16" color VRX
1280x1024



diskless

19" color VRX
1280x1024



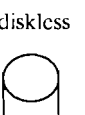
420MB

19" GRX grayscale
1280x1024



420MB

19" CRX color
1280x1024



420MB

19" PVRX 3D color
1280x1024



420MB

		MEMORY	INTERNAL STORAGE	OTHER OPTIONS
		Only one memory option may be ordered per workstation.	Only one internal storage option may be ordered per workstation.	Order one only.
		Opt. ANB 16MB Total	Opt. AMT Add 420 Mbyte Disk	Opt. AL9 AUI LAN
A2100A 8MB RAM HP-IB Interface	\$8,890	\$1,200		N/C
A2102A 8MB RAM HP-IB Interface	\$10,890	\$1,200		N/C
A2103A 8MB RAM HP-IB Interface	\$12,890	\$1,200		N/C
A2164A 16MB RAM HP-IB Interface 8.0 Inst. Ign.	\$16,690		\$2,500	N/C
A2162A 8MB RAM HP-IB Interface	\$8,890	\$1,200		N/C
A2163A 16MB RAM HP-IB Interface 8.0 Inst. Ign.	\$12,690		\$2,500	N/C
A2165A 8MB RAM HP-IB Interface	\$12,890	\$1,200		N/C
A2166A 16MB RAM HP-IB Interface 8.0 Inst. Ign.	\$16,690		\$2,500	N/C
A2167A 16MB RAM HP-IB Interface 8.0 Inst. Ign. Pers. Visualizer	\$30,690		\$2,500	N/C



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HP-UX HP Apollo 9000 Series 400

MODEL 425t ADD-ON OPTIONS (customer or field installed)

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MEMORY

98229B	ADD 8MB ECC RAM set (1 Mbit) add-on	Model 400t, 425t	\$1,200.	\$2.
98229D	ADD 16MB ECC RAM set (4 Mbit) add-on	Model 425t	\$2,400.	\$8.

INTERNAL STORAGE

A2075A	420MB internal SCSI Disk Drive <i>Maximum of two internal storage devices per workstation</i>	Model 425t	\$2,500.	\$24.
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Other Options

A1450A	HP-IB (IEEE-488) standard speed interface with cable	Model 400t, 425t	\$400.	N/C
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HP Apollo 9000 Series 400

Model 425s Deskside Workstations

System Standard Features

- 25MHz MC68040 processor
- delivers 11 SPECmarks, 22 MIPS, and 2.6 MFLOPS
- 16MB ECC RAM, expandable to 128MB
- configurable for internal mass storage
 - 2 full height 5.25" bays
 - 2 half height 5.25" bays
- 1 asynchronous RS-232C port (expandable to 3 with K2292)
- 1 parallel (Centronics compatible) port
- 1 external SCSI port (support for a total of up to 7 devices – including internal)
- IEEE 802.3 Ethernet LAN interface configured with ThinLAN (may be converted optionally to LAN AUI)
- IEEE-488 standard speed HP-IB port
- HP-HIL port
- Apollo keyboard port
- auto selecting power supply 115V/230V
- operating environment: HP-UX 8.0 Run-Time, 2 user license-to-use

- Optional 3 slot DIO-II internal I/O expander
- Optional 4 slot EISA internal I/O expander



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HP Apollo 9000 Series 400

MODEL 425s DESKSIDE WORKSTATIONS/SERVER

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
<u>Model 425s VRX Monochrome Workstations (1280X1024)</u>				
A2116A	VRX, 19" monochrome monitor, 16MB RAM, 660MB disk drive, HP-IB, HP-UX 7.05 Instant Ignition. Available options ANC, AM6, AN9, AM8, AL9	Localization Kit A1099A See page B-2 HP-UX 7.05	\$20,965.	\$55.
<u>Model 425s GRX Grayscale Workstations (1280X1024)</u>				
A2180A	GRX, 19" grayscale monitor, 16MB RAM, 660MB disk drive, HP-IB, HP-UX 8.0 Instant Ignition Available options ANC, AMP, AN9, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$20,990.	\$57.
A2181A	GRX, 19" grayscale monitor, 16MB RAM, 660MB disk, HP-IB, HP-UX 8.0 Instant Ignition, 3 slot DIO-II I/O expander, DIO-II to DIO converter. Available options ANC, AMP, AN9, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$23,390.	\$57.
<u>Model 425s VRX Color 2D Workstations (1280 X 1024)</u>				
A2117A	VRX, 19" color monitor, 16MB RAM, 660MB disk drive, HP-IB, HP-UX 7.05 Instant Ignition Available options ANC, AM6, AN9, AM8, AL9	Localization Kit A1099A See page B-2 HP-UX 7.05	\$24,965.	\$70.
A2118A	VRX, 19" color monitor, 16MB RAM, 660MB disk drive, HP-IB, HP-UX 7.05 Instant Ignition, 3 slot DIO-II I/O expander, DIO-II to DIO converter. Available options ANC, AM6, AN9, AM8, AL9	Localization Kit A1099A See page B-2 HP-UX 7.05	\$27,365.	\$70.
<u>Model 425s CRX Color 2D Workstations (1280X1024)</u>				
A2183A	CRX, 19" color monitor, 16MB RAM, 660MB disk drive, HP-IB, HP-UX 8.0 Instant Ignition Available options ANC, AMP, AN9, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$24,990.	\$71.
A2184A	CRX, 19" color monitor, 16MB RAM, 660MB disk drive, HP-IB, HP-UX 8.0 Instant Ignition, 3 slot DIO-II I/O expander, DIO-II to DIO converter. Available options ANC, AMP, AN9, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$27,390.	\$71.
A2185A	CRX, 19" color monitor, 16MB RAM, 660MB disk drive, HP-IB, HP-UX 8.0 Instant Ignition, 4 slot EISA I/O expander. Available options ANC, AMP, AN9, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$26,990.	\$71.
<u>Model 425s Personal VRX P3 3D Workstations (1280 X 1024)</u>				
A2119A	Personal VRX P3, 19" color monitor, 32MB RAM, 660MB disk, HP-IB, HP-UX 7.05 Instant Ignition, 3 slot DIO-II I/O expander, DIO-II to DIO converter, Personal Visualizer Available options ANE, AM6, AN9, AM8, AL9	Localization Kit A1099A See page B-2 HP-UX 7.05	\$43,765.	\$109.
A2187A	Personal VRX P3, 19" color monitor, 32MB RAM, 1.3GB disk, HP-IB, HP-UX 8.0 Instant Ignition, 3 slot DIO-II I/O expander, DIO-II to DIO converter, Personal Visualizer Available options ANE, AN9, AM8, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$44,790.	\$123.



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HP Apollo 9000 Series 400

MODEL 425s DESKSIDE WORKSTATIONS/SERVER Cont'd

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Model 425s TurboVRX T2 3D Workstations (1280 X 1024)

A2120A	TurboVRX T2, 19" color monitor, 32MB RAM, 660MB disk drive, IIP-IB, HP-UX 7.05 Instant Ignition, 3 slot DIO-II I/O expander, DIO-II to DIO converter., Personal Visualizer Available options ANE, AM6, AN9, AM8, AL9	Localization Kit A1099A See page B-2 HP-UX 7.05	\$85,765.	\$206.
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Model 425s Server (No graphics)

A2121A	16MB RAM, 660MB disk, 600MB CD-ROM Drive, 3 slot DIO-II I/O expander, IIP-IB Available options ANC, AM6, AN9, AL9, 900, 901, 902, 903, 906, 912, 917, 918, 919	Must order power cord option Requires terminal or graphics subsystem HP-UX 7.05	\$21,890.	\$67.
A2189A	16MB RAM, 1.3GB disk, 600MB CD-ROM Drive, 3 slot DIO-II I/O expander, HP-IB Available options ANC, AM7, AN9, AL9, 900, 901, 902, 903, 906, 912, 917, 918, 919	Must order power cord option Requires terminal or graphics subsystem HP-UX 8.0	\$22,890.	\$76.

Server Power Cord options #900 through #919 (below)

N/C

#900 United Kingdom	#903 North America, Taiwan, Korea	#917 Republic of South Africa, India
#901 Australia, New Zealand	#906 Switzerland	#918 Japan
#902 European	#912 Denmark	#919 Israel

MODEL 425s FACTORY INTEGRATED OPTIONS

Memory

#ANC Add 16MB memory for a total of 32MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation.</i>	Model 425s 2D graphics or server systems	\$2,400.	\$12.
#ANE Add 32MB memory for a total of 64MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation.</i>	Model 425s 3D graphics systems	\$4,800.	\$14.

Internal Storage

#AM6 Add Second 660MB disk Drive, factory integrated. <i>Fills second of two supported internal disk bays.</i>	Model 400s or 425s systems with HP-UX 7.05	\$5,000.	\$15.
#AMP Replace internal 660MB Disk with 1.3GB SCSI disk drive, HP-UX 8.0 Instant Ignition, factory integrated. <i>Maximum of one option AMP per workstation.</i>	Model 425s systems with HP-UX 8.0	\$1,000	\$11
#AM7 Add 1.3GB 4mm SCSI DDS drive, factory integrated. <i>Maximum of one option AM7 per workstation.</i>	A2189A Only	\$4,700.	\$26.
#AM8 Add 600MB SCSI CD-ROM Drive, factory integrated. <i>Maximum of one option AM8 per workstation.</i>	Model 425s systems with HP-UX 7.05, and A2187A	\$1,000.	\$18.

Other Options

#AL9 Factory select LAN AUI configuration. This option overrides default ThinNET Ethernet connection.	External Transceiver Required.	N/C	N/C
#AN9 Add 128KB external cache memory, factory integrated.	Model 425s	\$1,000	N/C



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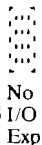
HP Apollo 9000 Series 400

Model 425s Factory Integrated Configuration Matrix

19" mono VRX
1280x1024



660MB

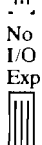


No
I/O
Exp

19" grayscale
GRX
1280x1024



660MB



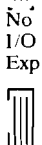
No
I/O
Exp

DIO-II EXP

19" color VRX
1280x1024



660MB

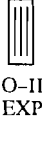


DIO-II EXP

19" color CRX
1280x1024



660MB



DIO-II
EXP

EISA
Exp

		Memory		Internal Storage				Other Options	
		Only one memory option may be ordered per workstation		No more than one of each available option may be ordered per workstation.				No more than one of each option may be ordered per workstation.	
		Opt ANC 32MB Total	Opt ANE 64MB Total	Opt AM6 Second 660MB Disk	Opt AMP Replace 660 Disk with 1.3GB	Opt AM7 DDS Tape Drive	Opt AM8 CD- ROM Drive	Opt AN9 128KB Cache Memory	Opt AL9 AUI LAN
A2116A 16MB RAM IIP-IB Interface 7.05 Instant Ignit.	\$20,965	\$2,400		\$5,000			\$1,000	\$1,000	N/C
A2180A 16MB RAM IIP-IB Interface 8.0 Instant Ignit.	\$20,990	\$2,400			\$1,000			\$1,000	N/C
A2181A 16MB RAM HP-IB Interface DIO-II/DIO Conv. 8.0 Instant Ignit.	\$23,390	\$2,400			\$1,000			\$1,000	N/C
A2117A 16MB RAM IIP-IB Interface 7.05 Instant Ignit.	\$24,965	\$2,400		\$5,000			\$1,000	\$1,000	N/C
A2118A 16MB RAM IIP-IB Interface DIO-II/DIO Conv. 7.05 Instant Ignit.	\$27,365	\$2,400		\$5,000			\$1,000	\$1,000	N/C
A2183A 16MB RAM IIP-IB Interface 8.0 Instant Ignit.	\$24,990	\$2,400			\$1,000			\$1,000	N/C
A2184A 16MB RAM HP-IB Interface DIO-II/DIO Conv. 8.0 Instant Ignit.	\$27,390	\$2,400			\$1,000			\$1,000	N/C
A2185A 16MB RAM IIP-IB Interface 8.0 Instant Ignit.	\$26,990	\$2,400			\$1,000			\$1,000	N/C



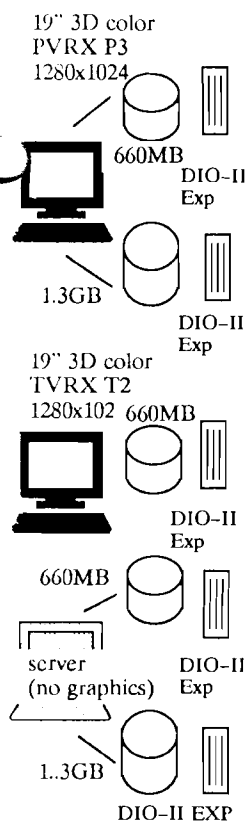
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HP Apollo 9000 Series 400

Model 425s Factory Integrated Configuration Matrix



	Memory		Internal Storage				Other Options		
	Only one memory option may be ordered per workstation		No more than one of each available option may be ordered per workstation.				No more than one of each option may be ordered per workstation.		
	Opt ANC 32MB Total	Opt ANE 64MB Total	Opt AM6 Second 660MB Disk	Opt AMP Replace 660 Disk with 1.3GB	Opt AM7 DDS Tape Drive	Opt AM8 CD- ROM Drive	Opt AN9 128KB Cache Memory	Opt AL9 AUI LAN	
A2119A 32MB RAM HP-IB Interface DIO-II/DIO Conv. 7.05 Instant Ignit. Personal Visualizer	\$43,765	\$4,800	\$5,000			\$1,000	\$1,000	N/C	
A2187A 32MB RAM HP-IB Interface DIO-II/DIO Conv. 8.0 Instant Ignit. Personal Visualizer	\$44,790	\$4,800				\$1,000	\$1,000	N/C	
A2120A 32MB RAM HP-IB Interface DIO-II/DIO Conv. 7.05 Instant Ignit. Personal Visualizer	\$85,765	\$4,800	\$5,000			\$1,000	\$1,000	N/C	
A2121A 16MB RAM CD-ROM Drive HP-IB Interface	\$21,890	\$2,400	\$5,000				\$1,000	N/C	
A2189A 16MB RAM CD-ROM Drive HP-IB Interface	\$22,890	\$2,400			\$4,700		\$1,000	N/C	



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HP Apollo 9000 Series 400

MODEL 425s DESKSIDE WORKSTATIONS/SERVER Cont'd

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425s ADD-ON OPTIONS (customer or field installed)

ADD ECC RAM

98229B	ADD 8MB ECC RAM set (1 Mbit) add-on	Models 400s, 425s	\$1,200.	\$2.
98229D	ADD 16MB ECC RAM set (4 Mbit) add-on	Models 400s, 425s	\$2,400.	\$8.
98229E	ADD 32MB ECC RAM set (4 Mbit) add-on	Models 400s, 425s	\$4,800.	\$14.

INTERNAL STORAGE

A1443A	660MB internal SCSI Disk Drive <i>Maximum of two internal disks supported per workstation</i>	Models 400s, 425s	\$5,000.	\$15.
A2076A	1.3GB internal SCSI Disk Drive <i>Maximum of two internal disks supported per workstation</i>	Model 425s with HP-UX 8.0	\$6,000.	\$26.
A1447A	Add 1.3GB 4mm internal DDS-format Tape Drive <i>Maximum of one DAT drive and one disk drive supported per workstation</i>	Models 400s, 425s	\$4,700.	\$26.
A1448A	600MB internal SCSI CD-ROM Drive	Models 400s, 425s	\$1,000.	\$18.
A2274A	2GB 3.5" DDS-format 4mm Tape Drive <i>Must order #AHQ</i> <i>Maximum of one DDS Drive supported internally per system</i> #AHQ Upgrade kit for Model 425s	Model 425s HP-UX 8.0 N/C	\$2,500.	\$26.

Other Options

A1451A	HP-IB (IEEE-488) standard speed interface with cable	Models 400s, 425s	\$400.	N/C
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HP Apollo 9000 Series 400

Model 433s Deskside Workstations

System Standard Features

- 33MHz MC68040 processor
- delivers 14 SPECmarks, 29 MIPS, and 3.2 MFLOPS
- 16MB ECC RAM, expandable to 128MB
- configurable for internal mass storage
 - 2 full height 5.25" bays
 - 2 half height 5.25" bays
- 1 asynchronous RS-232C port (expandable to 3 with K2292)
- 1 parallel (Centronics compatible) port
- 1 external SCSI port (support for a total of up to 7 devices - including internal)
- IEEE 802.3 Ethernet LAN interface configured with ThinLAN (may be converted optionally to LAN AUI)
- IEEE-488 standard speed HP-IB port
- HP-HIL port
- Apollo keyboard port
- auto selecting power supply 115V/230V
- operating environment: HP-UX 8.0 Run-Time, 2 user license-to-use

- Optional 3 slot DIO-II internal I/O expander
- Optional 4 slot EISA internal I/O expander



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HP-UX HP Apollo 9000 Series 400

MODEL 433s DESKSIDE WORKSTATIONS/SERVER

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
Model 433s GRX Grayscale Workstations (1280X1024)				
A2523A	GRX, 19" grayscale monitor, 16MB RAM, 1.3GB disk, HP-IB, HP-UX 8.0 Instant Ignition Available options ANC, AN9, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$21,990.	\$68.
A2524A	GRX, 19" grayscale monitor, 16MB RAM, 1.3GB disk, HP-IB, HP-UX 8.0 Instant Ignition, 3 slot DIO-II I/O expander, DIO-II to DIO converter. Available options ANC, AMW, AN9, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$24,390.	\$68.
A2525A	GRX, 19" grayscale monitor, 16MB RAM, 1.3GB disk, HP-IB, HP-UX 8.0 Instant Ignition, 4 slot EISA I/O expander Available options ANC, AMW, AN9, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$23,990.	\$68.
Model 433s CRX Color 2D Workstations (1280X1024)				
A2526A	CRX, 19" color monitor, 16MB RAM, 1.3GB disk, HP-IB, HP-UX 8.0 Instant Ignition Available options ANC, AN9, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$25,990.	\$82.
A2527A	CRX, 19" color monitor, 16MB RAM, 1.3GB disk, HP-IB, HP-UX 8.0 Instant Ignition, 3 slot DIO-II I/O expander, DIO-II to DIO converter. Available options ANC, AMW, AN9, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$28,390.	\$82.
A2528A	CRX, 19" color monitor, 16MB RAM, 1.3GB disk, HP-IB, HP-UX 8.0 Instant Ignition, 4 slot EISA I/O expander. Available options ANC, AMW, AN9, AL9	Localization Kit A1099B or A2205A See page B-2 HP-UX 8.0	\$27,990.	\$82.
Model 433s Server (No graphics)				
A2529A	16MB RAM, 1.3GB disk, 3 slot DIO-II I/O expander, HP-IB Available options ANC, AMG, AMW, AN9, AL9, 900, 901, 902, 903, 906, 912, 917, 918, 919	Must order power cord option Requires terminal or graphics subsystem HP-UX 8.0	\$21,890.	\$58.
A2530A	16MB RAM, 1.3GB disk, 4 slot EISA I/O expander, HP-IB Available options ANC, AMG, AMW, AN9, AL9, 900, 901, 902, 903, 906, 912, 917, 918, 919	Must order power cord option Requires terminal or graphics subsystem HP-UX 8.0	\$21,890.	\$58.

Server Power Cord options #900 through #919 (below)

N/C

#900	United Kingdom	#903	North America, Taiwan, Korea	#917	Republic of South Africa, India
#901	Australia, New Zealand	#906	Switzerland	#918	Japan
#902	European	#912	Denmark	#919	Israel



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MODEL 433s DESKSIDE WORKSTATIONS/SERVER Cont'd

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 433s FACTORY INTEGRATED OPTIONS

Memory

#ANC	Add 16MB memory for a total of 32MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation.</i>	Model 433s 2D graphics or server systems	\$2,400.	\$12.
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Internal Storage

#AMG	Add Second 1.3GB Disk Drive, factory integrated. <i>Fills second of two supported internal disk bays.</i>	Model 433s servers	\$6,000.	\$26.
#AMW	Add 2GB 4mm SCSI DDS Drive, factory integrated. <i>Maximum of one option AMW per workstation.</i>	All 433s except A2523A, A2526A	\$2,500.	\$5.

Other Options

#AL9	Factory select LAN AUI configuration. This option overrides default ThinNET Ethernet connection.	External Transceiver Required.	N/C	N/C
#AN9	Add 128KB external cache memory, factory integrated.	Model 433s	\$1,000.	N/C



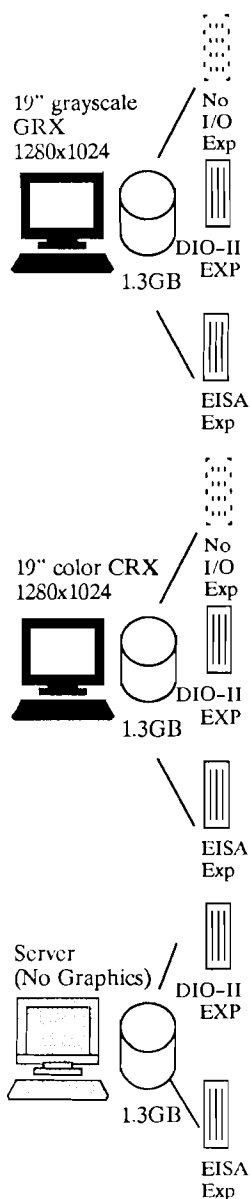
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Model 433s Factory Integrated Configuration Matrix



	Memory		Internal Storage		Other Options	
	Only one memory option may be ordered per workstation		No more than one of each available option may be ordered per workstation.		No more than one of each option may be ordered per workstation.	
	Opt ANC 32MB Total	Opt AMG Second 1.3GB Disk	Opt AMW Add 2 GB DDS- Format Tape Drive	Opt AN9 128KB Cache Memory	Opt AL9 LAN AUI	
A2523A 16MB RAM IIP-IB Interface 8.0 Instant Ignit.	\$21,990	\$2,400			\$1,000	N/C
A2524A 16MB RAM IIP-IB Interface DIO-II/DIO Conv. 8.0 Instant Ignit.	\$24,390	\$2,400		\$2,500	\$1,000	N/C
A2525A 16MB RAM IIP-IB Interface 8.0 Instant Ignit.	\$23,990	\$2,400		\$2,500	\$1,000	N/C
A2526A 16MB RAM IIP-IB Interface 8.0 Instant Ignit.	\$25,990	\$2,400			\$1,000	N/C
A2527A 16MB RAM HP-IB Interface DIO-II/DIO Conv. 8.0 Instant Ignit.	\$28,390	\$2,400		\$2,500	\$1,000	N/C
A2528A 16MB RAM IIP-IB Interface 8.0 Instant Ignit.	\$27,990	\$2,400		\$2,500	\$1,000	N/C
A2529A 16MB RAM IIP-IB Interface	\$21,890	\$2,400	\$6,000	\$2,500	\$1,000	N/C
A2530A 16MB RAM IIP-IB Interface	\$21,890	\$2,400	\$6,000	\$2,500	\$1,000	N/C



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MODEL 433s DESKSIDE WORKSTATIONS/SERVER Cont'd

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 433s ADD-ON OPTIONS (customer or field installed)

ADD ECC RAM

98229B	ADD 8MB ECC RAM set (1 Mbit) add-on	Models 400s, 425s, 433s	\$1,000.	\$2.
98229D	ADD 16MB ECC RAM set (4 Mbit) add-on	Models 400s, 425s, 433s	\$2,400.	\$8.
98229E	ADD 32MB ECC RAM set (4 Mbit) add-on	Models 400s, 425s, 433s	\$4,800.	\$14.

INTERNAL STORAGE

A1443A	660MB internal SCSI Disk <i>Maximum of two internal disks supported per workstation</i>	Models 400s, 425s, 433s	\$5,000.	\$15.
A2076A	1.3GB internal SCSI Disk <i>Maximum of two internal disks supported per workstation</i>	Models 433s with HP-UX 8.0	\$6,000.	\$26.
A1448A	600MB internal SCSI CD-ROM Drive	Models 400s, 425s, 433s	\$1,000.	\$18.
A2274A	2GB 3.5" DDS-format Drive <i>Must order #AHQ</i>	Models 425s, 433s HP-UX 8.0	\$2,500.	\$26.

#AHQ Upgrade kit for Model 425s, 433s

N/C

Other Options

A1451A	HP-IB (IEEE-488) standard speed interface with cable	Models 400s, 425s, 433s	\$400.	N/C
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UPGRADES, EXTERNAL STORAGE & PERIPHERALS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
CPU Upgrades				
A2087A	Upgrades 425e to 710. HP installed upgrade. Includes SPU, power supply, documentation and HP-UX operating system license transfer. HP-UX 8.07 is supplied either via instant ignition or via CE installed at time of installation.	Model 425e	\$5,890.	
AMY	420MB SCSI II disk		\$2,000.	
AN4	Adds 8MB memory		\$1,000.	
AN8	Adds 16MB memory		\$2,000.	
AL9	LAN AUI configuration		N/C	
A2040A	Model 400t to Model 425t Upgrade kit.	Model 400t	\$2,000	N/C
#AAR	Add 2-user HP-UX 7.05 Update Media (1/4" tape) and Manuals		\$595.	N/C
#0LX	Add 2-user HP-UX 7.05 Update Media (1/4" tape) and Manuals. <i>Software Support contract customers only.</i> <i>Does not include Programming Documentation Kit or System Administration Set.</i>		N/C	N/C
A2042A	Model 400s to Model 433s Upgrade kit.	Model 400s Min. Rev. HP-UX 7.05	\$4,000	N/C
A2044A	Model 400s to Model 425s Upgrade kit.	Model 400s	\$2,000	N/C
#AAR	Add 2-user HP-UX 7.05 Update Media (1/4" tape) and Manuals		\$595.	N/C
#0LX	Add 2-user HP-UX 7.05 Update Media (1/4" tape) and Manuals. <i>Software Support contract customers only.</i> <i>Does not include Programming Documentation Kit or System Administration Set.</i>		N/C	N/C
A2046A	Model 425s to Model 433s Upgrade kit.	Model 425s Min. Rev. HP-UX 7.05	\$4,000	N/C



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Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
Graphics Upgrades				
A2078A	Upgrade Model 400t VRX graphics to Model 425t with CRX color graphics and 19" monitor. <i>Includes MC68040 CPU upgrade, HP Installation.</i>	Model 400t with color or monochrome VRX graphics	\$12,000	\$24.
A2079A	Upgrade Model 425t VRX graphics to Model 425t with CRX color graphics and 19" monitor. <i>Includes HP Installation.</i>	Model 425t with color or monochrome VRX graphics	\$10,000	\$24.
A2080A	Upgrade Model 400s VRX graphics to Model 425s with CRX color graphics and 19" monitor. <i>Includes MC68040 CPU upgrade, HP installation.</i>	Model 400s with color or monochrome VRX graphics	\$12,000	\$24.
A2081A	Upgrade Model 425s VRX graphics to Model 425s with CRX color graphics and 19" monitor. <i>Includes HP Installation.</i>	Model 425s with color or monochrome VRX graphics	\$10,000	\$24.
Mass Storage Systems				
C2213A	Model 660S Mass Storage System with 660MB SCSI drive	Series 400 except 400dl. Requires SCSI cable and terminator. See cable chart	\$5,175.	\$20.
#002	Add one 660MB Fixed disk		\$4,850.	\$16.
#022	Add two 660MB Fixed disks		\$9,700.	\$32.
#003	Add DDS (4mm) Tape Drive		\$4,700.	\$28.
#004	Add 600MB CD-ROM Drive		\$1,250.	\$20.
#005	Add 650MB Magneto-Optical Drive		\$5,400.	\$20.
C2214B	Series 6000 Model 1350S Mass Storage System with 1.3GB SCSI Disk Drive.	Series 400 except 400dl. Requires SCSI cable and terminator. See cable chart Minimum Rev. HP-UX 8.0.	\$6,200.	\$31.
C2290A	332MB Disk Upgrade for C2213A Mass Storage System	C2213A	\$4,200.	\$10.
C2291A	664MB Disk Upgrade for C2213A Mass Storage System	C2213A	\$5,050.	\$15.
C2295B	1.3GB Disk Upgrade for C2213A or C2214B Mass Storage System	C2213A, C2214B Install option	\$5,800.	\$27.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	
C2293A	600MB CD-ROM Upgrade for C2213A Mass Storage System	C2213A Install option	\$1,250.	\$18.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	



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Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
Mass Storage Systems				
C2292A	1.3GB DDS-Format DDS Tape Drive Upgrade for C2213A, or C2214B Mass Storage System	C2213A, C2214B Install option	\$4,700.	\$26.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	
C2294A	650MB Magneto-Optical Disk Drive Upgrade for C2213A, or C2214B Mass Storage System	C2213A, C2214B Install option	\$5,400.	\$20.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	
C2216T	Series 6000 Model 670SE Mass Storage System with 677MB SCSI Disk Drive. <i>Requires SCSI cable and terminator. See cable chart, Minimum Rev. HP-UX 8.0.</i>	Series 400 except 400dl.	\$4,800.	\$16.
C2217T	Series 6000 Model 1350SE Mass Storage System with 1.3GB SCSI Disk Drive. <i>Requires SCSI cable and terminator. See cable chart, Minimum Rev. HP-UX 8.0.</i>	Series 400 except 400dl	\$6,200.	\$19.
C2473T	677MB Disk Upgrade for C2216T or C2217T Mass Storage System	C2216T, C2217T Install option	\$4,300.	\$14.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	
C2474T	1.3GB Disk Upgrade for C2216T or C2217T Mass Storage System	C2216T, C2217T Install option	\$5,800.	\$17.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	
C2293T	600MB CD-ROM Upgrade for C2216T, or C2217T Mass Storage System	C2216T, C2217T Install option	\$1,250.	\$19.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	
C2292T	1.3GB DDS-Format Tape Drive Upgrade for C2216T, or C2217T Mass Storage System	C2216T, C2217T Install option	\$4,700.	\$27.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	
C2294T	650MB Magneto-Optical Disk Drive Upgrade for C2216T or C2217T Mass Storage System	C2216T, C2217T Install option	\$5,400.	\$20.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	
C2297T	2.0GB 3.5" DDS Tape upgrade for C2216T or C2217T Mass Storage System	C2217T Install option	\$2,650.	
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	



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Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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CD-ROM

A1999A	600MB CD-ROM Drive standalone	Series 400 except 400dl Requires SCSI cable and terminator. See cable chart <i>Must specify power cord.</i>	\$1,300.	\$21.
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Power Cord options #900 through #919 (below)

N/C

#900	United Kingdom	#903	North America, Taiwan, Korea	#917	Republic of South Africa, India
#901	Australia, New Zealand	#906	Switzerland	#918	Japan
#902	European (except Swit. Denmark)	#912	Denmark	#919	Israel

DDS-Format Tape

C1512A	1.3GB 4mm DDS Tape standalone	Series 400 except 400dl Requires SCSI cable and terminator. See cable chart.	\$5,700.	\$31.
C1520B	2.0GB 4mm DDS Tape standalone includes SCSI cable (K2296), terminator (K2291) and documentation	Series 400 except 400dl. Min. Rev HP-UX 8.0	\$3,150.	

Magneto-Optical Disks

C1700A	20GB Magneto-Optical autochanger	Series 400 except 400dl Requires SCSI cable and terminator. See cable chart	\$37,200.	\$111.
C1701A	650MB Magneto-Optical Drive standalone	Series 400 except 400dl Requires SCSI cable and terminator. See cable chart	\$5,835.	\$24.
C1703A	10GB Magneto-Optical autochanger	Min. HP-UX 8.0 Series 400 except 400dl Requires SCSI cable and terminator. See cable chart	\$20,700.	\$103.
C1704A	60GB Magneto-Optical autochanger	Min. HP-UX 8.0 Series 400 except 400dl Requires SCSI cable and terminator. See cable chart	\$78,900.	\$250.
C1705A	100GB Magneto-Optical autochanger	Min. HP-UX 8.0 Series 400 except 400dl Requires SCSI cable and terminator. See cable chart	\$107,300.	\$316.



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Tape

9144A	67MB 1/4" Cartridge Tape Drive standalone	Series 400 except 400dl, 425e. Requires IEEE-488 HP-IB Interface.	\$2,600.	\$11.
9145A	133MB 1/4" Cartridge Tape Drive standalone	Series 400 except 400dl, 425e Requires IEEE-488 HP-IB Interface.	\$4,055.	\$11.

Terminals

C1001A	HP 700/92 Terminal Amber Display	<i>Requires cable 24542G, (order from HP Apollo Direct Channel) localization option</i>	\$895.	\$4.
C1001G	Suffix denotes color of display			
C1001W	A = Amber, G = Green, W = white			
C1002A	HP 700/94 Terminal Amber Display	<i>Requires cable 24542G, (order from HP Apollo Direct Channel) localization option</i>	\$1,150.	\$4.
C1002G	Suffix denotes color of display			
C1002W	A = Amber, G = Green, W = white			
C1007A	HP 700/44 Terminal Amber Display	<i>Requires cable 24542G, (order from HP Apollo Direct Channel) localization option</i>	\$649.	\$4.
C1007G	Suffix denotes color of display			
C1007W	A = Amber, G = Green, W = white			



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Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Terminals

HP 700/RX RISC X Stations

Standard Features

- RISC X Window processor base unit
- Built in DRAM and VRAM
- Monitor
- PC-style Keyboard and 3-button mouse
- Monitor cable, power cords, manuals

C2701B	HP 700/RX MI Monochrome X Station Base Unit <i>90,000 x stones, 4MB DRAM, .25MB VRAM</i> Available options 1A2, AN7, W03		\$2,695.	\$4.
C2704A	HP 700/RX Ci Color X Station Base Unit <i>52,000 x stones, 4MB DRAM, 1MB VRAM</i> Available options 1A2, AN7, W03		\$2,995.	\$4.
C2709A	HP 700/RX Ca High Resolution Color X Station Base Unit <i>86,000 x stones, 4MB DRAM, 2MB VRAM</i> Available options 1A2, AN7, W03		\$3,895.	\$4.
^{\$14.} C2702B	HP 700/RX 19Mi 19" Monochrome X Station <i>19" 1280x1024 display, 90,000 x stones, 4MB DRAM, .25MB VRAM</i> Available options 1A2, AN7, W03		\$3,295.	
C2705A	HP 700/RX 14Ci 14" Color X Station <i>14" 1024x768 display, 52,000 x stones, 4MB DRAM, 1MB VRAM</i> Available options 1A2, AN7, W03		\$3,495.	\$7.
C2706A	HP 700/RX 16Ci 16" Color X Station <i>16" 1024x768 75Hz display, 52,000 x stones, 4MB DRAM, 1MB VRAM</i> Available options 1A2, AN7, W03		\$4,495.	\$12.



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Terminals

C2710A	HP 700/RX 16Ca 16" Color X Station <i>16" 1024x768 75Hz display, 86,000 x stones, 4MB DRAM, 1MB VRAM</i> Available options 1A2, AN7, W03		\$5,195.	\$12.
C2711A	HP 700/RX Model 19Ca 19" Color X Station <i>19" 1280x1024 72Hz display, 86,000 x stones, 4MB DRAM, 2MB VRAM</i> Available options 1A2, AN7, W03		\$5,995.	\$28.
C2715A	HP 700/RX Server Tape-HP CISC	Minimum Rev. HP-UX 7.0	\$250.	
	#AAH Provides software on DDS format tape		N/C	
	#AA0 Provides software on 1/4" cartridge tape		N/C	
	#AA1 Provides software on 1/2" 1600 BPI tape		N/C	

X STATION FACTORY INTEGRATED OPTIONS

#1A2	Delete PC-style keyboard	-\$60.
#AN7	Delete 2MB SIMM	-\$299.
#W03	Convert one year return to HP warranty to 90 day on-site	N/C

Terminal Localization

(MUST ORDER WITH EVERY TERMINAL)

Localized options #ABA through #AB1 (below)						N/C
#ABA	U.S. English	#ABK	ICON	#ABW	Belgian Dutch	
#ABC	French Canadian	#ABM	Latin Spanish	#ABX	Finnish	
#ABD	German	#ABN	Norwegian	#ABY	Danish	
#ABE	European	#ABP	Swiss German	#ABZ	Italian	
#ABF	European French	#ABQ	Swiss French	#AB0	Taiwan	
#ABH	Dutch	#ABS	Swedish	#AB1	Korean	
#ABJ	Katakana	#ABU	UK			



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Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Networking

28641B	10Base2 ThinLAN MAU		\$239.	N/C
28683A	Fiber Optic Transceiver		\$499.	N/C
28685B	10BaseT EtherTwist MAU		\$159.	\$2.
30241A	10Base5 ThickLAN MAU		\$400.	\$6.

HP-HIL Devices

46021A	HP-HIL U.S. Keyboard. For use with HP-HIL interface. Keyboard cable included when ordering with a system or terminal. When ordered alone a 46020-60001 must also be added.		\$155.	N/C
46084A	HP-HIL ID Module.		\$200.	N/C
46085A	HP-HIL Control Dial Module. 9 user definable RPG knobs		\$1,450.	N/C
46086A	HP-HIL button box with 32 keys		\$965.	N/C
46060B	HP-HIL 3 button mouse		\$180.	N/C
M1309A	HP-HIL 3 button Trackball input device.		\$302.	N/C
46087C	HP-HIL Digitizer, ANSI A/ISO A4 size. Includes tip-switch stylus.		\$875.	\$6.
46088C	HP-HIL Digitizer, ANSI B/ISO A3 size. Includes tip-switch stylus.		\$1,405.	\$6.
46090C	HP-HIL Digitizer, ANSI A/ISO A4 size. Includes 4-button cursor with crosshair.		\$875.	\$6.
46091C	HP-HIL Digitizer, ANSI		\$1,405.	\$6.
46094A	HP-HIL Quadrature Adapter.		\$250.	N/C
K1410	Quadrature 3-Button Mouse.		\$99.	N/C

VME Expander

A1467A	VME expander. Includes eight 6U VME slots. <i>May not be purchased for A1421B with internal DIO-II expander (opt. ALO). Must be ordered as Coordinated shipment with A1421B, A2116A, A2117A, A2180A, A2183A, or A2185A. Minimum Rev. HP-UX 7.05.</i>	Localization option See below	\$7,500	\$24.
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Localization options: #900 through #918 (below)

N/C

#900	United Kingdom	#903	United States, Canada	#917	Republic of South Africa, India
#901	Australia, New Zealand	#906	Switzerland	#918	Japan
#902	European (except Switzerland and Denmark)	#912	Denmark		



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Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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General I/O

K2292	Convert 1 to 3 RS-232C ports Attaches to workstation serial port.	Series 400 except 400dl and 425e Minimum HP-UX Rev. 7.05	\$300.	N/C
A1450A	HP-IB (IEEE-488) standard speed interface with cable Customer Installable, does not require I/O slot.	Models 400t, 425t	\$400.	N/C
A1451A	HP-IB (IEEE-488) standard speed interface with cable Customer Installable, does not require I/O slot.	Models 400s, 425s	\$400.	N/C
37204A	Coax/Fibre Optic	Series 400 except 400dl and 425e IEEE-488 HP-IB	\$1,500.	\$3.
92203J	HP-IB to Centronics Converter <i>U.S. only</i>	Series 400 except 400dl and 425e IEEE-488 HP-IB	\$210.	N/C
92203K	HP-IB to Centronics Converter <i>AC adapter must be ordered separately (88241A)</i>	Series 400 except 400dl and 425e IEEE-488 HP-IB	\$200.	N/C
SPTL-2003NA	Spaceball , Input device which controls 3-D screen images in X, Y, and Z axes through actual hand movement. Utilizes RS232 Serial interface. North America version	Series 400	\$1,695.	
SPTL-2003IL	Spaceball , Input device which controls 3-D screen images in X, Y, and Z axes through actual hand movement. Utilizes RS232 Serial interface. International version	Series 400	\$1,795.	

DIO-II Cards

A1401A	DIO-II to DIO-I/O Converter. <i>Not supported in DIO-II graphics slot. Limit 2 per workstation.</i>	Models 400s, 425s, 433s DIO-II I/O slot	\$400.	N/C
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DIO Cards

36592A	SNALink Includes 98649A card. <i>Refer to CPL for option selection and pricing.</i>	Models 400s, 425s, 433s DIO I/O slot		
36593A	SNALink Includes 98649A card. <i>Refer to CPL for option selection and pricing.</i>	Models 400s, 425s, 433s DIO I/O slot		
36941A	X.25/300 Link	Models 400s, 425s, 433s DIO I/O slot	\$3,090.	\$6.



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DIO Cards Cont'd				
98171A	LAN Interface card with ThinMAU	Models 400s, 425s, 433s	\$2,350.	N/C
#1AW	Delete TCP/IP software right-to-use	DIO I/O slot	-\$550	
#241	Delete ThinMAU and BNC "T" connector		-\$350	
#740	Replace ThinLAN with ThickLAN		\$200.	
	Includes ThickMAU, tap & 6m AUI cable.			
#840	Replaces ThinLAN with Ethertwist connection.		N/C	
	Includes twisted pair MAU and reference manuals.			
98297A	RTI/SBX Interface	Models 400s, 425s, 433s two DIO I/O slots	\$2,000.	\$3.
98622A	General Purpose I/O (GPIO) Interface	Models 400s, 425s, 433s	\$425.	N/C
#001	4.8 meter (15.8 ft) unterminated cable	DIO I/O slot	\$111.	N/C
98624A	IEEE-488 HP-IB Interface	Models 400s, 425s, 433s	\$365.	N/C
		DIO I/O slot		
98625B	IEEE-488 High-speed HP-IB Interface	Models 400s, 425s, 433s	\$1,000.	N/C
		DIO I/O slot		
98626A	RS232C Serial Interface	Models 400s, 425s, 433s	\$415.	N/C
#001	DTE 25-pin Male cable 4.9m (16 ft)	DIO I/O slot	\$83.	
#002	DCE 25-pin Female Cable 4.9m (16 ft)		\$83.	
98628A	Datacomm Interface	Models 400s, 425s, 433s	\$540.	N/C
#001	RS-232C DTE 25-pin Male cable 4.9m (16 ft)	DIO I/O slot	\$96.	
#002	RS-232C DCE 25-pin Female Cable 4.9m (16 ft)		\$96.	
#003	RS-449/423 37-pin DTE Male Cable 4.9m (16 ft)		\$196.	
98638A	8-channel MUX	Models 400s, 425s, 433s	\$2,150.	N/C
#AA0	Provides software on 1/4" cartridge tape.	DIO I/O slot	\$50.	
#1AW	Delete Software <i>order for use with HP-UX 8.0</i>		N/C	
#1C8	Replace RS-232 interface with RS-422 interface		\$250.	
98641A	RJE 2780/3780 Interface	Models 400s, 425s, 433s	\$1,395.	N/C
#001	Bisync RJE V.35 interface	DIO I/O slot	\$795.	
	Includes 5m (16 ft) cable and diagnostic test hood			
98642A	4-port RS-232C MUX	Models 400s, 425s, 433s	\$670.	N/C
		DIO I/O slot		
98644A	RS-232C Interface	Models 400s, 425s, 433s	\$212.	N/C
		DIO I/O slot		
98658A	SCSI Interface	Models 400s, 425s, 433s	\$1,000.	N/C
		DIO I/O slot		





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<u>LASER PRINTERS</u>				
C2007A	LaserJet IIP Plus printer 4ppm with PCL4, Centronics parallel I/O only.	Requires cable see cable chart	\$1,595.	\$10.
33481A	LaserJet IIIP printer 4ppm, RS232 Centronics interfaces.	Requires cable see cable chart	\$1,595.	\$10.
33459A	LaserJet IIID printer 8ppm with dual tray duplex, RS232/422, Centronics interfaces.	Requires cable see cable chart	\$3,595.	\$23.
33491A	LaserJet IIISi printer 17ppm with dual 500-sheet, RS232/422, Centronics interfaces.	Requires cable see cable chart	\$5,495.	\$47.
33449A	HP LaserJet III printer with RS232-C and Centronics parallel interfaces.	Requires cable see cable chart	\$2,395.	\$23.
<u>COLOR INK JET PRINTERS</u>				
3630A	HP PaintJet color ink jet printer for text and graphics. <i>Must specify option #001 or #004</i>	Requires cable see cable chart	\$1,095.	\$5.
#001	HP PaintJet color graphics printer with RS232-C interface.		N/C	
#002	HP PaintJet color graphics printer with IEEE-488 HP-IB interface.	Series 400 except 400dl, 425e	N/C	
#004	HP PaintJet color graphics printer with Centronics interface.		N/C	
C1602A	HP PaintJet XL color graphics printer. User's guide, set up guide, supplies and power cord included. <i>Must specify option #1AX</i>	Requires cable see cable chart	\$2,595.	\$6.
#1AX	HP PaintJet XL color graphics printer with RS232-C and Centronics parallel interfaces.		N/C	
#1A8	HP PaintJet XL color graphics printer with IEEE-488 HP-IB/RS232	Series 400dl except 400dl, 425e	N/C	
<u>IMPACT PRINTERS</u>				
2562C	Line Matrix printer <i>Must order option #049 or #053</i>	Requires cable see cable chart	\$5,777.	\$48.
#049	RS232-C interface subsystem.		\$207.	
#053	Centronics interface subsystem.		\$200.	
2563C	Impact printer - 420 lpm <i>Must order option #049 or #053</i>	Requires cable see cable chart	\$8,717.	\$52.
#049	RS232-C interface subsystem.		\$207.	
#053	Centronics interface subsystem.		\$200.	



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HP-UX HP Apollo 9000 Series 400

UPGRADES, EXTERNAL STORAGE & PERIPHERALS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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IMPACT PRINTERS

2564C	Impact printer - 840 lpm <i>Must order option #049 or #053</i>	Requires cable see cable chart	\$13,873.	\$84.
#049	RS232-C interface subsystem.		\$248.	
#053	Centronics interface subsystem.		\$200.	
2566C	Impact printer - 1200 lpm <i>Must order option #049 or #053</i>	Requires cable see cable chart	\$27,554.	\$198.
#049	RS232-C interface subsystem.		\$398.	
#053	Centronics interface subsystem.		\$385.	
2567C	Impact printer - 1600 lpm <i>Must order option #049 or #053</i>	Requires cable see cable chart	\$34,835.	\$209.
#049	RS232-C interface subsystem.		\$398.	
#053	Centronics interface subsystem.		\$385.	

PLOTTERS

C1625A	HP 7600 Series Model 250 , monochrome electrostatic plotter. <i>Must specify localization option. HP-IB only; for HP-IB connectivity an HP-IB interface board is required.</i>	Requires cable see cable chart	\$16,900.	\$85.
C1627A	HP 7600 Series Model 255 , monochrome electrostatic plotter. <i>Must specify localization option. HP-IB only; for HP-IB connectivity an HP-IB interface board is required.</i>	Requires cable see cable chart	\$26,900.	\$107.
C1620A	HP 7600 Series Model 355 , color electrostatic plotter. <i>Must specify localization option. HP-IB only; for HP-IB connectivity an HP-IB interface board is required.</i>	Requires cable see cable chart	\$49,900.	\$214.
C1633B	A/E size monochrome InkJet plotter. <i>Supports HP-GL/2 and HPRTL. Must specify localization option. HP-IB only; for HP-IB connectivity an HP-IB interface board is required.</i>	Requires cable see cable chart	\$10,995.	\$30.
7440A	HP ColorPro plotter for A-size. <i>Must specify option #001.</i>	Requires cable see cable chart	\$1,295.	\$4.
#001	RS232-C interface.		N/C	
7475A	HP 7475A plotter for A/B-size. <i>Must specify option #001.</i>	Requires cable see cable chart	\$1,895.	\$8.
#001	RS232-C interface.		N/C	
7550B	HP 7550 Plus plotter for A/B-size. <i>Must specify option #005.</i>	Requires cable see cable chart	\$3,995.	\$16.
#005	Serial Interface		\$200.	
7570A	HP DraftPro plotter for C/D-size, 8-pen plotter. RS232-C interface standard.	Requires cable see cable chart	\$3,795.	\$11.



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UPGRADES, EXTERNAL STORAGE & PERIPHERALS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
<u>PLOTTERS</u>				
7575A	HP DraftPro DXL plotter for A through D-size, 8-pen plotter. RS232-C interface standard.	Requires cable see cable chart	\$4,595.	\$11.
7576A	HP DraftPro EXL plotter for A through E-size, 8-pen plotter. RS232-C interface standard.	Requires cable see cable chart	\$5,995.	\$11.
7595C	HP DraftMaster SX Plus plotter High performance A through E-size, 8-pen plotter. Single sheet feeder. RS232-C interface standard.	Requires cable see cable chart	\$7,495.	\$24.
7596C	HP DraftMaster RX Plus plotter High performance A through E-size, 8-pen plotter. Roll or sheet feed. RS232-C interface standard.	Requires cable see cable chart	\$9,495.	\$24.
7599B	HP DraftMaster MX Plus plotter High performance A through E-size, 8-pen plotter. Roll or sheet feed. Four RS232-C ports and 20-megabyte hard disk standard.	Requires cable see cable chart	\$10,995.	\$28.



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CABLES

CAUTION: SCSI cables and terminators for connecting external peripherals to Series 400 computers **must** be ordered separately. Failure to order these parts as needed will result in delivery of unusable systems.

Because of the variety of connectors used with SCSI devices throughout the industry, and because we cannot have prior knowledge of cable lengths required for individual configurations at each installation, neither Hewlett-Packard Series 400 workstations nor (most) Hewlett-Packard peripherals include SCSI cables.

Cables are available from Hewlett-Packard in all necessary combinations of connectors and in several lengths. The peripherals they connect and the specific cable types are detailed in Table 1, see next page.

Connectors

There are currently 3 SCSI connector types recommended for use with HP-UX Series 400 workstations and the peripherals listed in this guide.

1. The SCSI connector recommended for attachment to all Series 400 workstations shipped after November 1990 is a High Density Thumb Screw connector.
2. Before November 1990, all Series 400 workstations used a High Density Squeeze Lock connector.
3. Hewlett-Packard supplied SCSI devices supported under HP-UX are attached through the use of a Low Density Bail Lock connector.

The cable required depends upon the two devices being connected:

The first external device will be connected to the SPU, so one connector of the cable should be the High Density type (either Thumb Screw or Squeeze Lock, depending on the age of the SPU).

The other end of the cable to the first external device will be the Low Density Bail Lock type.

Subsequent SCSI devices will be attached by cables with Low Density Bail Lock connectors on both ends.

Cable Length

Choices of length are available for each cable type. Remember that the definition of single-ended SCSI limits the total length of SCSI cables to 6 meters. This includes the length of cabling internal to each device. Since Series 400 workstations use 1.4 meters of internal cabling, this leaves 4.6 meters for the remaining chain of connecting and internal cables.

Terminators

The SCSI bus must always be terminated. the last device on the bus must always be terminated as described below:

If no external SCSI devices are connected to the SPU, the SCSI port must still be terminated. The Models 400t, 425t, and 425e all use a design with internal termination so no external terminator is required. The Models 400s, 425s, and 433s all use an external terminator (K2289) which is shipped with the SPU.

When connecting one or more external devices to the SPU, the last device in the daisy-chain must be terminated. The proper terminator for the external device connector type must be used.

Selecting SCSI Cables and Terminators

Table 1 details the SCSI cables and terminators used to connect and terminate the listed devices when used with the Series 400.

Device support changes more often than this manual can be updated. Please check with your local HP Sales Office for a current support matrix. Remember that SCSI cables are not shipped with the Series 400 workstations or with most HP SCSI peripheral devices (check prerequisites for specific devices). It is recommended to order your cables through your HP Sales Representative at the time of purchase of your workstation. For added convenience cables may be ordered separately from your local HP Sales Office or from the *HP Apollo Direct Workstation Catalog*. For orders in the U.S. call 1-800-752-0900 to be referred to your local sales office.



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HP Apollo 9000 Series 400

CABLES

Helpful Hints for SCSI

1. Only Hewlett-Packard approved SCSI cables should be used with Series 400 workstations and any connected SCSI devices. Use of non-HP cables may result in significant problems with system operation.
2. Always use the shortest possible cable(s) for your configuration.
3. Up to seven devices may be connected at one time in a single SCSI chain. The workstation counts as one device. If the Series 400 workstation has internal SCSI devices, you must count them as additional SCSI devices in the total.

Table 1
SCSI Cables and Terminators for HP-UX Series 400 Workstations

Connecting FROM	TO
	HP-UX Devices: A1999A, C1512A, C1520B, C1700A, C1701A, C1703A, C1704A, C1705A, C2213A, C2214B, C2216T, C2217T
Models 4XXe, t, s with Thumb Screw Connectors	K2296 .9 meter K2297 1.5 meter
Models 400t, s with Squeeze Lock Connectors	K2286 .9 meter K2285 1.5 meter
HP-UX Devices: A1999A, C1512A, C1520B, C1700A, C1701A, C1703A, C1704A, C1705A, C2213A, C2214B, C2216T, C2217T	92222A .5 meter 92222B 1.0 meter 92222C 2.0 meter
Include this SCSI terminator when ordering cabling	
Terminator	K2291
Connector	Low Density Bail Lock

RS-232C Cables

CAUTION: Cables for connecting hardcopy and datacomm peripherals to series 400 workstations **must** be ordered separately. Failure to order these parts as needed will result in delivery of unusable peripherals.

Numerous RS-232C connector types exist, so connecting cables must be selected and ordered depending on the requirements of the devices to connect. Table 2 will provide a guide for selection of the proper cables.



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HP Apollo 9000 Series 400

CABLES

Table 2

RS-232C Cables for HP-UX Series 400 Workstations

Connecting 		
--	--	--

* or 92224M adapter, if cable present

** connect directly, if cable present



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CABLES

Centronics Parallel Interface

The primary Centronics parallel interface cable is cable model # 92284A, which is a 36-pin M/25-pin M cable, 2.13m (6.6ft) long. This cable can be extended by an additional 3.0m (9.9 ft) by using cable model #17355D (25-pin F/25-pin M straight-through cable).

HP-IB Cables

The Hewlett-Packard Interface Bus (HP-IB) is HP's implementation of IEEE-488-1978. The standard speed bus (available built into the backplane of 4xxt and 4xxs workstations) nominally supports 14 devices and a maximum cabling of 20 meters (66 feet), or 2 meters (6.6 feet) per device, whichever is least. The 98625B DIO high-speed interface (available in 4xxs systems with internal DIO-II expander) support 7 devices and 15 meters (49.5 feet), or 8 meters (26.4 feet) plus 1 meter (3.3 feet) of cable per device, whichever is least.

The built-in HP-IB includes a 1 meter cable. Other cables to connect HP-IB devices are available in a variety of lengths.

HP-HIL Cables

HP-HIL is Hewlett-Packard's bus for connecting various human interfaces devices, including the keyboard and mouse. It permits daisy-chaining of devices with very low power consumption. Cables for the keyboard and mouse are included in the localization kits purchased with Series 400 workstations. Additional devices will require HP-HIL cables to connect them. A few facts should be kept in mind:

1. The maximum number of addressable devices is seven (eight including the SPU itself).
2. The maximum cabling length is 2.4 meters (8 feet) per device, and the total length limit is 21 meters (69.3 feet). The 46082 remote extension will permit a total length of 48.6 meters (160.4 feet).
3. The Series 400 always provides enough power for 3 devices on the bus, and for 7 devices if the 46085A (control dial module) is not included.



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HP Apollo 9000 Series 400

Cable Products and Prices

SCSI Cables and Terminators

K2291	Low Density Bail Lock Terminator	\$40.
K2285	1.5m (5 ft.) Low Density Bail Lock to High Density Squeeze Lock cable	\$82.
K2286	.9 m (3 ft.) Low Density Bail Lock to High Density Squeeze Lock cable	\$79.
K2296	.9 m (3 ft.) Low Density Bail Lock to High Density Thumb Screw cable	\$83.
K2297	1.5 m (3 ft.) Low Density Bail Lock to High Density Thumb Screw cable	\$88.
92222A	.5 m (1.7 ft.) Low Density Bail Lock (both ends) cable	\$49.
92222B	1 m (3.3 ft.) Low Density Bail Lock (both ends) cable	\$55.
92222C	2 m (6.7 ft.) Low Density Bail Lock (both ends) cable	\$59.

RS-232C Cables

17255D	1.2 m (4 ft.) 25-pin M/25-pin F Cable	\$44.
17255F	1.2 m (4 ft.) 25-pin F/25-pin F Cable	\$44.
24542G	3 m Serial RS232-C cable with female connector	\$60.
24542H	3 m Serial RS232-C cable with male connector	\$60.
24542M	3 m US/Europe modem cable	\$60.
40242C	5 m (16.5 ft.) 25-pin F/25-pin M Cable	\$108.
40242G	5 m (16.5 ft.) 25-pin M/25-pin M Cable	\$77.
40242M	5 m (16.5 ft.) 25-pin M/25-pin M Cable	\$77.
92219Q	5 m (16.5 ft.) 25-pin M/25-pin M Cable	\$55.
92219T	15 m (50 ft.) RJ-11 M/RJ-11 M Cable	\$21.
92219U	RJ-11 F to 25-pin M adapter	\$19.
92224F	RS-232C Female Gender Converter	\$25.
5061-4215	4.9 m (16 ft.) 50-pin M/25-pin M Cable	\$105.
5061-4216	4.9 m (16 ft.) 50-pin M/25-pin F Cable	\$105.

Centronics Parallel Cables

92284A	2.1 m (6.6 ft.) 36-pin M/25-pin M Cable	\$39.
17355D	3 m (9.9 ft.) 25-pin F/25-pin M Cable	\$66.

HP-IB Cables

10833D	.5 m (1.6 ft.) cable	\$80.
10833A	1 m (3.3 ft.) cable	\$80.
10833B	2 m (6.7 ft.) cable	\$90.
10833C	4 m (13.3 ft.) cable	\$100.
92220R	.3 m (1 ft.) right-angle cable	\$80.
8120-3448	6 m (19.8 ft.) cable	\$125.
8120-3449	8 m (26.4 ft.) cable	\$135.

HP-HIL Cables

46020-60001	3 m (10 ft.) coiled cable	\$45..
46080-61601	2.4 m (8 ft.) flat male cable	\$24.50
46083-61601	.5 m (1.6 ft.) flat male cable	\$18.
46080A	2.4 m (8 ft.) extension cable	\$89.
46081A	2.4 m (8 ft.) extension cable with audio	\$225.
46082A	15 m (49.5 ft.) remote extension with audio and RGB video cables	\$795.
#015	Delete remote and RGB cables	-\$335.
#343	Delete RGB cables	-\$120.
46082B	30 m (99 ft.) remote extension with audio and RGB video cables	\$1,115.



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HP-UX

HP Apollo 9000 Series 400

- SOFTWARE INTRODUCTION -

ADDING SOFTWARE TO THE SERIES 300 /400

HP-UX RUN TIME LICENSE

All Series 300/400 Workstations include a 2-user license-to-use for the HP-UX Run-Time environment. A 32-user license can also be ordered. The actual HP-UX software, however, must be explicitly loaded onto the workstation's disk by one of two methods:

Method A

Order Instant Ignition. HP-UX 8.0 Run-Time Instant Ignition delivers the Run-Time environment pre-installed and preconfigured on the Series 300/400 disk. Ordering information on Instant Ignition is included in the hardware sections of this Price Guide.

Method B

Order the HP-UX software on either 1/4" cartridge tape or CD-ROM media and load the software onto the disk.

No matter which method of loading HP-UX Run-Time is used above, at least one copy of HP-UX media is strongly recommended per workgroup (primarily for recovery, installation, and administration needs). All HP-UX media products include a core set of installation and administration documentation.

In addition to HP-UX, other HP software is frequently desired. To order Series 300/400 HP software, follow these general steps:

STEP 1: Order the appropriate HP-UX media product (one per workgroup recommended)

A. CD-ROM customers:

1. Order the CD-ROM media kit, B2378A. Option AAB is recommended to allow delivery of a pre-computed codeword.
2. If a 32-user HP-UX environment is desired, also order B1862A with option AAU.

B. Cartridge (1/4" Tape) customers:

1. If a 2-user HP-UX environment will suffice, order B1861A with option AA0.
2. If a 32-user HP-UX environment is needed, order B1862A with option AA0.

STEP 2: Order other software products required:

A. CD-ROM customers:

Order all desired products and be sure to select the no-charge CD-ROM option (#AAU) for each. This will allow delivery of a codeword to "unlock" all ordered products from the CD-ROM media kit (B2378A). When ordering multiple licenses, the option #AAU only needs to be selected once for each workgroup. For example, 10 Fortran licenses must be ordered to use Fortran on 10 workstations. However, one option #AAU selection is sufficient to allow the customer to install Fortran from the CD-ROM set (and optionally distribute the software over the network). The general rule is that one option #AAU selection is needed per product for each CD-ROM media kit. Also, note that *in order to receive the pre-computed codeword, the additional software, with option #AAU, must be ordered in the same order section as the CD media kit.* (For more details on the new CD-ROM ordering process, see the Field Training Manual for HP-UX Software on CD-ROM and the Field Training Manual for HP-UX 8.0.)

B. Cartridge (1/4" Tape) customers:

Order all desired products and select option #AA0 for media. As with HP-UX, at least one copy of media for each product is recommended per workgroup.



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- SOFTWARE INTRODUCTION Cont'd -

An Explanation of CD-ROM Software Distribution

Optional HP Software for the Series 300/400, like HP-UX, is available only on 1/4" Cartridge Tape or CD-ROM. Ordering and distribution of software on 1/4" Cartridge Tape is similar to the traditional HP-UX magnetic media options. The methods for ordering and installing HP software on CD-ROM are new, and need some explanation.

All HP software distributed on CD-ROM comes loaded on the discs included in **HP-UX Software on CD Media (B2378A)**. Most can only be accessed using a special **codeword** which "unlocks" it. The basic 2-user HP-UX Run-Time and other free software are unlocked and immediately available on the CD media (B2378A) when it is delivered. Access to additional software is provided through codewords. If you order CD media (B2378A) with the HP-HIL ID module (option #AAB), and order additional HP software products through the CD-ROM certificate (option #AAU) in the same section of the order, then the CD-ROM codeword is delivered with the shipment to provide access to the software products. The codeword is made up of elements specific to the CD-ROM disc, the HP-HIL ID module, and the additional software ordered. Since all these elements are available in this case, the codewords can be precomputed and available to unlock the software immediately upon delivery of the software products. Ordering option #AAB is strongly recommended to provide the convenience of the pre-computed codewords.

If you order the CD disc set without the HP-HIL ID module (option #AAF), a CD-ROM entitlement certificate for any additional software you order will be delivered. Instructions are provided on how to contact HP for the necessary codeword. The process requires that the customer provide the "hardware ID", CD-ROM disc part numbers, and information from the CD-ROM entitlement certificates. This may be an existing HP-HIL ID module, or a C1707A serial number. This process is also used when ordering additional software on an order subsequent to the order for the CD media (no additional copy of the CD media is required). HP will provide the codeword within eight hours of a completed request.

Once the codeword is obtained for a software product, additional licenses for workstations in the same workgroup may be purchased without the CD certificate. The software may be installed over the network (through the "netdist" command), or locally installed at each workstation using the same hardware ID device, CD-ROM media, and codeword used for the original installation.

ORDERING DOCUMENTATION FOR THE SERIES 300/400

Documentation may be ordered in two formats: Hardcopy or CD-ROM.

To order documents on **CD-ROM**, order the **HP-UX Series 300/400 Documentation** base product (B1864A) and select option #0BC which delivers the documentation on CD-ROM and access software with 1-user license-to-use. Additional user licenses are available in multiples of 4, through the 4-user add-on (option #UA2). Some documentation is not available on CD-ROM. Order option #0BJ to receive these hardcopy manuals.

Hardcopy documents can be ordered in three ways: (1) as a document set option to the **HP-UX Series 300/400 Documentation** base product (B1864A), (2) as an option to a software license, or (3) as an individual document from the HP Apollo Direct Channel or from HP DMK (Direct Marketing Division). To order the document sets, simply order the base product (B1864A) and the desired document set option. To order individual documents, see the Document part-number table at the back of this Software section.



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SOFTWARE Cont'd

Product Number	Description	U.S. LIST \$
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SOFTWARE ON CD MEDIA

B2378A	HP-UX Software on CD Media. Includes HP-UX 8.0 and related software products (as available) on CD-ROM media.	
#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, Installing Peripheral, HP VUE configuration guide, and HP VUE System Administration manual.	\$595.
#AAF	CD Disc Set. Includes software on CD-ROM. Does not include HP-HIL ID module. Documentation included: Installing and Updating HP-UX, Installing Peripheral, HP VUE configuration guide, and HP VUE System Administration manual.	\$495.

DOCUMENTATION

B1864A	HP-UX 8.0 Documentation. Documentation is available on CD-ROM or in hardcopy form.	
#0BC	Documentation on CD-ROM. Includes 1-user license-to-use.	\$795.
#0BJ	Hardcopy documentation which is not available on CD-ROM (option 0BC)	\$150.
#UA2	4-user add-on for CD-ROM Documentation. Provides license-to-use for 4 additional users on CD-ROM documentation access software.	\$395.
#0BD	General Usage. Includes hardcopy general user's guides for HP-UX, HP VUE, and X Window System. <i>NOTE: this set is shipped with each HP-UX workstation.</i>	\$130.
#0BE	HP-UX System Administration and Installation. Includes hardcopy administration and installation manuals for HP-UX, networking, and HP VUE.	\$650.
#0BF	General Programming. Includes hardcopy manuals for assembler, device I/O, native language support and general HP-UX programming techniques.	\$325.
#0BG	HP-UX User's Guides. Includes hardcopy manual for UUCP, mail, text formatting/processing, shells and editors.	\$175.
#0BL	User Environment. Includes hardcopy programming manuals for X Toolkit, Intrinsics, Xlib, HP VUE and OSF/Motif environment.	\$695.
#0BM	Starbase. Includes hardcopy programming manuals for Starbase, Starbase Display List, and Radiosity . an Ray Tracing	\$975.
#0BT	C/ANSI C. Includes Hardcopy manuals for C/ANSI C and symbolic debugger.	\$195.

HP-UX 8.0 RUN-TIME ENVIRONMENT

Note: A license-to-use for the 2-user HP-UX Run-Time Environment is bundled with all HP-UX workstations.

HP-UX Run-Time Environment includes HP-UX operating system, HP VUE, NFS, ARPA, Diskless, SAM, and run-time support for: X11, OSF/Motif environment, Starbase, Starbase Display List, NCS and NetLS.

Each of the localized products consists of localized messages for HP-UX Run-Time and HP VUE, localized documentation. NLIO (Native Language Input/output) where necessary, and English HP-UX.

Software for these products is also available on CD-ROM media B2378A (Series 300/400). Complete documentation is available in B1864A (Series 300/400).

B1861A	HP-UX 8.0 Run-Time Environment, 2 user.	
#AA0	Provides HP-UX 8.0 software on 1/4" cartridge tape. Documentation included: Installing and Updating HP-UX, Installing Peripheral, HP VUE configuration guide, and HP VUE System Administration manual. For complete documentation see B1864A.	\$395.



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HP-UX HP Apollo 9000 Series 400

SOFTWARE Cont'd

Product Number	Description	U.S. LIST \$
HP-UX 8.0 RUN-TIME ENVIRONMENT Cont'd		
B1862A	HP-UX 8.0 Run-Time Environment, 32 user.	\$1,895.
#AA0	Provides HP-UX 8.0 software on 1/4" cartridge tape. Documentation included: Installing and Updating HP-UX, Installing Peripheral, HP VUE configuration guide, and HP VUE System Administration manual. For complete documentation see B1864A.	\$395.
HP-UX LOCALIZED 8.0 RUN-TIME ENVIRONMENT		
B2386A	Japanese HP-UX Run-Time Environment, 2 user.	\$605.
#AA0	Provides software on 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.	\$395.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0HG	Tape upgrade HP-UX 8.0 to localized version.	\$300.
B2814A	Japanese Documentation.	N/C
#0BE	Hardcopy System Administration Documentation	\$780.
B2388A	Korean HP-UX Run-Time Environment, 2 user.	\$605.
#AA0	Provides software on 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.	\$395.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0HG	Tape upgrade HP-UX 8.0 to localized version.	\$300.
B2391A	German HP-UX Run-Time Environment, 2 user.	N/C
#AA0	Provides software on 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.	\$395.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	\$100.
#0HG	Tape upgrade HP-UX 8.0 to localized version.	\$300.
B2392A	French HP-UX Run-Time Environment, 2 user.	N/C
#AA0	Provides software on 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.	\$395.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	\$100.
#0HG	Tape upgrade HP-UX 8.0 to localized version.	\$300.



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HP-UX HP Apollo 9000 Series 400

SOFTWARE Cont'd

Product Number	Description	U.S. LIST \$
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HP-UX LOCALIZED 8.0 RUN-TIME ENVIRONMENT Cont'd

B2389A **Traditional Chinese HP-UX Run-Time Environment, 2 user.** **N/C**

#AA0 Provides software on 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. **\$395.**

#AAU CD-ROM certificate. Required to access software on CD-ROM media. **N/C**

#0HG Tape upgrade HP-UX 8.0 to localized version. **\$300.**

#0BG User's Guide Documentation localized. **\$230.**

B2390A **Simplified Chinese HP-UX Run-Time Environment, 2 user.** **\$605.**

#AA0 Provides software on 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. **\$395.**

#AAU CD-ROM certificate. Required to access software on CD-ROM media. **N/C**

#0HG Tape upgrade HP-UX 8.0 to localized version. **\$300.**

#0BG User's Guide Documentation localized. **\$210.**

B2393A **Italian HP-UX Run-Time Environment, 2 user.** **N/C**

#AA0 Provides software on 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. **\$395.**

#AAU CD-ROM certificate. Required to access software on CD-ROM media. **\$100.**

#0HG Tape upgrade HP-UX 8.0 to localized version. **\$300.**

B2394A **Italian HP-UX Run-Time Environment, 2 user.** **N/C**

#AA0 Provides software on 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. **\$395.**

#AAU CD-ROM certificate. Required to access software on CD-ROM media. **\$100.**

#0HG Tape upgrade HP-UX 8.0 to localized version. **\$300.**



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HP-UX HP Apollo 9000 Series 400

SOFTWARE Cont'd

Product Number	Description	U.S. LIST \$
DEVELOPMENT PRODUCTS		
B1863A	HP-UX 8.0 C/ANSI C Developer's Bundle. Includes license-to-use for one workstation; C/ANSI C compiler, debugger; development tools for X11, OSF/Motif environment, HP VUE, Starbase, Starbase Display List, and General Programming Tools. <i>NOTE:</i> Software is available on CD-ROM media (B2378A). For complete documentation, see B1864A.	\$1,795.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
B1865A	HP-UX 8.0 Developer's Toolkit Includes license-to-use for one workstation; Development Tools for X11, OSF/Motif environment, HP VUE, Starbase, Starbase Display List, and General Programming Tools. <i>NOTE:</i> Software is available on CD-ROM media (B2378A). For complete documentation, see B1864A.	\$395.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
B2379A	HP-UX 8.0 General Programming Tools. Includes site license-to-use General Programming and version control commands. <i>NOTE:</i> Software is available ("unlocked") on CD-ROM media (B2378A). For complete documentation, see B1864A.	
#AA0	Provides software on 1/4" cartridge tape.	\$195.
B2371A	C/ANSI C License-to-use C/ANSI C for one Series 300/400 workstation.	\$1,500.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0B1	Hardcopy manuals	\$195.
B2372A	Fortran 77 License-to-use Fortran for one Series 300/400 workstation.	\$1,500.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0B1	Hardcopy manuals	\$195.
B2373A	Pascal License-to-use Pascal for one Series 300/400 workstation.	\$1,500.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0B1	Hardcopy manuals	\$195.



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Product Number	Description	U.S. LIST \$
DEVELOPMENT PRODUCTS Cont'd		
35338A	COBOL/HP-UX Developer Package for HP9000 Series 300/400	\$3,750.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0B1	Hardcopy manual	\$195.
35339A	COBOL/HP-UX Compiler for HP9000 Series 300/400	\$2,400.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manual	\$195.
35340A	COBOL/HP-UX Run-Time System for HP9000 Series 300/400	\$500.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
B2400A	HP C + + License-to-use HP C + + compiler, based on AT&T's 2.1 version for Series 300/400. <i>Requires prior or concurrent purchase of C + + media/manual product (B2403A).</i> <i>Prerequisites:</i> Must specify a minimum of one license-to-use option below:	
#0AN	License-to-use HP C + + version 2.1 on one (1) seat.	\$1,700.
#0A9	License-to-use HP C + + version 2.1 on ten (10) seats.	\$13,600.
#0AG	License-to-use HP C + + version 2.1 on twenty-five (25) seats.	\$29,750.
#0AA	License-to-use HP C + + version 2.1 on fifty (50) seats.	\$51,000.
B2401A	HP C + + media and manuals HP C + + media and manuals (B2402A) on Series 300/400. HP C + + compatible with HP-UX 8.01 and later releases. Must specify media option.	
#AA0	Provides software on 1/4" cartridge tape.	\$240.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
B1694A	HP C + + Developer License-to-use HP C + + Developer Browsing and Construction Tool for Series 300/400.	
#0AN	License-to-use HP C + + version 2.1 on one (1) seat.	\$2,000.
#0A9	License-to-use HP C + + version 2.1 on ten (10) seats.	\$18,000.
#0AG	License-to-use HP C + + version 2.1 on twenty-five (25) seats.	\$37,500.
#0AA	License-to-use HP C + + version 2.1 on fifty (50) seats.	\$60,000.
B1695A	HP C + + Developer media and manuals HP C + + Developer and manuals (B2406A) on Series 300/400.	\$125.
#AA0	Provides software on 1/4" cartridge tape.	N/C
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C



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Product Number	Description	U.S. LIST \$
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DEVELOPMENT PRODUCTS Cont'd

B2673A **Open Dialogue Developer's Kit for Series 300/400.** **\$1,845.**

License-to-use Open Dialogue Developer's Kit on one Series 300/400 workstation.

#AA0 Provides software on 1/4" cartridge tape. **\$195.**
#AAU CD-ROM certificate. Required to access software on CD-ROM media. **N/C**
#0BJ Hardcopy manuals **\$75.**

98860B **HP Ada Development System for Series 300/400.**

#AHJ License to use HP Ada on one seat. **\$6,985.**
#041 Update license-to-use **\$1,750.**
#AA0 Provides software on 1/4" cartridge tape. **\$195.**
#0B1 Hardcopy manuals **\$155.**

98889B **HP Ada Bindings for Series 300/400.**

#051 License-to-use for GKS, Starbase, HP/SQL and HP-UX bindings **\$3,965.**
#055 License-to-use for X11, Xtk and X Motif bindings **\$3,965.**
#058 License-to-use all bindings bundled **\$6,965.**
#061 Provides software on 1/4" cartridge tape, for GKS, Starbase, HP/SQL and HP-UX bindings **\$195.**
#065 Provides software on 1/4" cartridge tape, for X11, Xtk and X Motif bindings **\$195.**
#068 Provides software on 1/4" cartridge tape, for all bindings bundled **\$195.**
#0B1 Hardcopy manuals **\$155.**
#0CC Update from previous version **-\$2,000.**
Requires prior purchase of 98889A/L

B2332A **ALLBASE/4GL Developer for Series 400 Workstations** **\$10,000.**

#AA0 Provides software on 1/4" cartridge tape. **N/C**
#AAU CD-ROM certificate. Required to access software on CD-ROM media. **N/C**
#APB For use with HP-UX 8.0 **N/C**

B2333A **ALLBASE/4GL Runtime for Series 400 Workstations** **\$2,950.**

#AA0 Provides software on 1/4" cartridge tape. **N/C**
#AAU CD-ROM certificate. Required to access software on CD-ROM media. **N/C**
#APB For use with HP-UX 8.0 **N/C**

GRAPHICS

B2362A **HP-GKS Libraries** **\$1,500.**

License-to-use HP-GKS graphics library for one Series 300/400 workstation HP-UX version 8.0.

#AA0 Provides software on 1/4" cartridge tape. **\$195.**
#AAU CD-ROM certificate. Required to access software on CD-ROM media. **N/C**
#0B1 Hardcopy manuals **\$300.**



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Product Number	Description	U.S. LIST \$
GRAPHICS		
B1759B	HP-PHIGS 2.1 Development Libraries License-to-use HP-PHIGS 2.1 development libraries for one Series 300/400 workstation. For use with HP-UX version 8.0. Supports PersonalVRX, TurboVRX and CRX.	\$3,400.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0B1	Hardcopy manual	\$350.
B1685B	HP-PHIGS 2.1 Run-Time Libraries License-to-use HP-PHIGS 2.1 runtime product for one Series 300/400 workstation. For use with HP-UX version 8.0. Supports PersonalVRX, TurboVRX and CRX.	\$500.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
DOS EMULATION		
B2398A	SoftPC3.0 License-to-use License-to-use SoftPC 3.0 for one Series 300/400 workstation.	\$700.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0B1	Hardcopy manuals	\$150.
NATIVE LANGUAGES		
B2200A	NLIO Japanese for Series 300/400 License-to-use Japanese NLIO on one Series 300/400 workstation.	\$605.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0B1	Hardcopy manuals	\$105.
B2204A	NLIO Korean for Series 300/400 License-to-use Korean NLIO on one Series 300/400 workstation.	\$605.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0B1	Hardcopy manuals	\$105.
B2208A	NLIO Chinese for Series 300/400 License-to-use Chinese NLIO on one Series 300/400 workstation.	\$605.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0B1	Hardcopy manuals	\$105.



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Product Number	Description	U.S. LIST \$
NETWORK COMPUTING DEVELOPMENT TOOLS		
B2212A	NLIO Simplified Chinese for Series 300/400 License-to-use Simplified Chinese NLIO on one Series 300/400 workstation.	\$605.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0B1	Hardcopy manuals	\$105.
B2677A	LSLOCK HP Binary for Series 300/400. License to use development tools for the Network license system. Includes licensing software and managing software modules.	\$4,808.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0CC	Update from previous version	\$1,973.
#0B1	Hardcopy manuals	\$47.
B1020A	NCS/NIDL for Series 300/400. License-to-use NIDL compiler on one Series 300/400 workstation.	\$860.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0B1	Hardcopy manuals	\$150.
SYSTEM & NETWORK MANAGEMENT		
B1791A	HP GlancePlus/UX for Series 300/400 on-line performance monitoring software Requires HP-UX 7.0. License-to-use HP GlancePlus/UX on a single Series 400 workstation. Software allows system administrator to view current system activity to identify and resolve performance problems when they occur.	
#0AN	Single node license	\$600.
#0A9	10-user license	\$3,000.
#0AG	25-user license	\$6,000.
#0AA	50-user license	\$10,000.
#0BE	User manual	\$100.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
B2661A	HP GlancePlus/UX for Series 300/400 Requires HP-UX 8.0.	
#0AN	Single node license	\$600.
#0A9	10-user license	\$3,000.
#0AG	25-user license	\$6,000.
#0AA	50-user license	\$10,000.
#0BE	User manual	\$100.
#AA0	Provides software on 1/4" cartridge tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C



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Product Number	Description	U.S. LIST \$
SYSTEM & NETWORK MANAGEMENT		
B1766B	HP LaserRX/UX Analyzer S/W for HP 9000	\$5,500
B1767B	HP LaserRX/UX Collector S/W for S300/400 running HP-UX 7.0	
AE8	Collector for S/32X-34X for HP-UX 7.0	\$1,200.
AE9	Collector for S/35X-37X;4XX for HP-UX 7.0	\$1,200.
AA0	Manual and S/W on 1/4" cart.	\$195.
AAH	Provides software on 4mm DDS DAT tape and manual	\$195.
B2662B	HP LaserRX/UX Collector S/W for S300/400 running HP-UX 8.0	
AE8	Collector for S/32X-34X for HP-UX 8.0	\$1,200.
AE9	Collector for S/35X-37X;4XX for HP-UX 8.0	\$1,200.
AA0	Manual and S/W on 1/4" cart.	\$195.
0BE	Hard copy manual	\$100.
H5288A	HP PerfView analysis software for Series 300/400. Includes HP Network Node Manager.	
#0AK	License-to-use	\$26,000.
AAH	Provides software on 4mm DDS DAT tape and manual	\$195.
#AA0	Provides software on 1/4-inch cartridge tape and manual	\$195.
#0B1	Manual only	\$100.
Task Broker – Task Broker is a software product that provides efficient access to computers across a network. Task Broker selects the best computer on a network to run a batch type task, transparently transfers its associated data to the selected computer, and sends the results back to the user upon completion of the task. Applies to series 300/400/600/700/800, DN2500, 3500, 4500, and 10000 workstations/systems. Media and documentation must be ordered separately. Licenses are restricted to a local area network. For purposes of this license, a local area network is defined as all systems connected to the same physical ethernet or token ring.		
B1740L	Task Broker License-to-Use – up to 10 workstations/systems	\$5,000
B1741L	Task Broker License-to-Use – up to 50 workstations/systems	\$15,000
B1742L	Task Broker Site License-to-Use	\$30,000
B1732A	Media and Documentation for Series 300/400/600/700/800. Task Broker Software. Requires prior or concurrent purchase of B1740/1/2L. Must specify media option	\$300.
AA0	Software on 1/4-inch cartridge tape for Series 300/400/600/700/800.	N/C
AA1	Software on 1/2-inch 1600 cpi 9-track tape for Series 300/400/600/700/800.	N/C
AAH	Software on 4mm DDS DAT tape.	N/C
B2827A	HP SharedX 1.X Media and Manuals for Series 700/RX with Series 300/400 host. Host must be running HP-UX 7.x or 8.0	
#AA0	Provides software on 1/4-inch cartridge tape	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manuals	\$150.



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Product Number	Description	U.S. LIST \$
SYSTEM & NETWORK MANAGEMENT		
B1942A	HP OmniBack Base License for HP 9000 Series 300/400/700/800 and Apollo Domain workstations; HP OmniBack is a network oriented backup management system for distributed HP-UX and Apollo Domain environments. Must be ordered prior or together with node licenses and platform software; HP OmniBack/Turbo for Series 600/700/800 counts as a Base License. <i>NOTE: First time purchase must include B1942A or B1929A for the S700, B1943A and B1944A/B</i>	\$5,050.
B1943A	HP OmniBack Node License for HP 9000 Series 300, 400, 700, 800 and Apollo Domain workstations. Must be ordered for each workstation in the backup environment.	Price per workstation (1-24 workstation) \$150. (25-99 workstation) \$135. (100 plus) \$110.
B1944A	HP OmniBack for HP 9000 Series 300/400; HP-UX 7.0 or later. Must specify media option and language option; Must be ordered together with node licenses.	\$250.
#AAH	Provides software on DDS (4mm DAT) tape.	N/C
#AA0	Provides software on 1/4-inch cartridge tape	N/C
#AA1	Provides software on 1/2-inch magnetic tape	N/C
#ABA	U.S. English	N/C
#ABJ	Japanese Documentation	N/C
B1944B	HP OmniBack for HP 9000 Series 300/400; HP-UX 8.01 or later. Must specify media option and language option; Must be ordered together with node licenses.	\$250.
#AAH	Provides software on DDS (4mm DAT) tape.	N/C
#AA0	Provides software on 1/4-inch cartridge tape	N/C
#AA1	Provides software on 1/2-inch magnetic tape	N/C
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#ABA	U.S. English	N/C
#ABJ	Japanese Documentation	N/C
#AGZ	License-to-use for 3 months Evaluation copy (Must specify media and language option)	-\$200.
B1900B	HP OpenSpool HP OpenSpool is a print management solution for networked and stand-alone computing environments of HP 9000 Series 300/400/600/700/800 systems (HP-UX) and SUN SPARCstations (SUN O.S. 4.1.1). Must specify media, language and license options.	
#UA0	License to use for 1 workstation	\$250.
#UBK	License-to-use for 1 SUN SPARCstation	\$250.
#UBN	Unlimited to use for 1 site	\$75,000.
#0AZ	Single country company license:	\$300,000.
B1903B	HP OpenSpool Software Documentation for HP 9000 Series 300/400 HP OpenSpool is a print management solution for networked and stand-alone computing environments of HP 9000 Series 300/400/600/700/800 systems (HP-UX) and SUN SPARCstations (SUN O.S. 4.1.1). Must specify media, language and license options.	
#AA0	Provides software on 1/4-inch cartridge tape	\$150.
#AA1	Provides software on 1/2-inch magnetic tape	\$150.
#AAH	Provides software on DDS (4mm DAT) tape.	\$150.
#ABA	U.S. English	\$150.
#ABD	German	\$150.
#ABE	Spanish	\$150.
#ABJ	Japanese	\$150.
#AGZ	License-to-use for 3 months Evaluation copy (Must specify media and language documentation)	-\$150.



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SYSTEM & NETWORK MANAGEMENT

B2679A **Passwd Etc for Series 300/400** Requires Domain system running SR10 or later as Registry server. **\$225.**

#AA0 Provides software on 1/4-inch cartridge tape **\$195.**
#AAU CD-ROM certificate. Required to access software on CD-ROM media. **N/C**

B1009A **HP OpenView Network Node Manager for Series 300/400**

#0AK License-to-use one HP-UX manager **\$15,000.**
#AA0 Provides software on 1/4-inch cartridge tape **\$100**
#AAH Provides software on DDS (4mm DAT) tape **\$100**
#0B1 Manual only **\$15.**

B1036A **HP OpenView Extensible SNMP Agent for Series 300/400.**
 Must specify media option, language option, and tier or license option

#AA0 Provides software on 1/4-inch cartridge tape **\$100.**
#AAH Provides software on DDS (4mm DAT) tape. **\$100.**
#0B1 Manual only **\$15.**
#UA0 License for use on a single system **\$1,000**
#0A9 License for use on 10 systems **\$8,000**
UAE License for use on 100 systems **\$60,000**
UAG License for use on 1000 systems **\$300,000**
#UE4 Upgrade from single system license **-\$1,000**
#UE5 Upgrade from 10 system license **-\$8,000**
#UE6 Upgrade from 100 system license **-\$300,000**

Management Station

B1039A **The Campus Management Station** HP 9000 Model 425c, 19" color monitor, **\$36,000.**
 1280x1024 high resolution color graphics, 24 MB Ram, internal 420 MB disk drive, internal CD-ROM drive,
 HP VUE and instant ignition pre-loaded and pre-configured, OpenView TCP/IP Agent, HP OpenView Network Node
 Manager pre-loaded and ready to run, HP-UX/400 CD-ROM set, Quick start instruction for getting started
 on managing your network.

1FH AT-style American language keyboard **N/C**
1FJ HP-Style American language keyboard **N/C**

OTHER

B1503A **HP Visual Editor 2.0 for HP-UX 8.0** **\$165.**
 License-to-use, Visual Editor 2.0 for HP-UX 8.0.

#AA0 Provides software on 1/4" cartridge tape. **\$195.**
#AAU CD-ROM certificate. Required to access software on CD-ROM media. **N/C**
#0B1 Hardcopy manuals **\$25.**

B1012B **LTU NS/9000** **\$700.**
 License-to-use Network Services/9000 on one Series 300/400 workstation.

#AAU CD-ROM certificate. Required to access software on CD-ROM media. **N/C**
#0B1 Hardcopy manuals **\$75.**



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DOCUMENTATION

This table represents the manuals available with the HP-UX Documentation (B1864A) product. These manuals may also be purchased separately by calling Direct Marketing Division (DMK).

B1864A for Series 300/400	Part numbers	CD-ROM
#0BD General Usage (one set included with each HP-UX workstation)		
HP VUE User's Guide	B1171-90022	Yes
Using the X Window System	B1171-90037	Yes
A Beginner's Guide to HP-UX	B1862-90000	Yes
Finding Information (HP-UX)	B1862-90001	Yes
#0BE System Administration and Installation		
Installing and Administering LAN	98194-60526	Yes
Using Serial Line IP Protocols	98194-60522	Yes
Networking Overview	B1012-90012	Yes
Using NFS Services	B1013-90008	Yes
Installing and Administering NFS	B1013-90009	Yes
Using ARPA Services	B1014-90006	Yes
Installing and Administering ARPA Services	B1014-90007	Yes
HP VUE Configuration Guide	*B1171-90021	Yes
HP VUE System Administration	*B1171-90023	Yes
Installing and Updating HP-UX 8.0)	*B1862-90002	Yes
Master Index (HP-UX)	B1862-90003	N/A
Error Message Catalog (HP-UX)	B1862-90004	Yes
How HP-UX Works: Concepts for the System Administrator	B1862-90005	Yes
Managing Clusters of HP 9000 Computers	B1862-90006	Yes
Sharing the HP-UX File System		
Installing Peripherals	*B1862-90007	Yes
System Administration Tasks	B1862-90008	Yes
HP-UX System Security	B1862-90009	Yes
Solving HP-UX Problems	B1862-90010	Yes
HP-UX Reference	B1864-90000	Yes
Managing Software Products with Network License System	D-11272-B	N/A
Managing NCS Software	D-11895-C	N/A
EISA Configuration Utility for HP-UX	B2370-90000	Yes
* Manuals shipped with HP-UX tape products B1861A, B1862A, and CD-ROM media products, and B2378A and B2358A.		
#0BG HP-UX User's Guides		
Remote Access: Kermit, UUCP, vt	B1862-90011	Yes
Mail System: elm, mailx	B1862-90012	Yes
Terminal Control: curses, Term0, ITE	B1862-90013	Yes
Text Formatting: mm, tbl, nroff	B1862-90014	Yes
Number Processing: bc, bs, dc	B1862-90015	Yes
Text Processing: awk, ed, sed	B1862-90016	Yes
Shells: Bourne, C, Korn, Keyshell, PAM	B1862-90017	Yes
Ultimate Guide to VI and EX Text Editors	97005-90015	Yes
#0BT C/ANSI C Compiler		
HP-UX Symbolic Debugger	B1864-90005	Yes
C Programmer's Guide	B1864-90008	Yes
C Programming Tools	B1864-90009	Yes
C A Reference Manual	B1700-90002	N/A



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B1864A for Series 300/400	Part numbers	CD-ROM
#0BF General Programming		
LLA Programmer's Guide	98194-60524	N/A
Berkeley IPC Programmer's Guide	98194-60525	N/A
NetIPC Programmer's Guide	98194-60527	N/A
Programming and Protocols for NFS Services	B1013-90010	Yes
HP-UX Reference	B1864-90000	Yes
Posix Conformance Document	B1864-90001	Yes
Device I/O: DIL, HP-HIL	B1864-90002	Yes
Native Language Support	B1864-90003	Yes
HP-UX Assembler and Tools	B1864-90004	Yes
HP-UX Portability Guide	B1864-90006	Yes
Programming on HP-UX	B1864-90007	Yes
#0BL User Environment		
HP VUE User Environment Programmer's Guide Programming with Xlib	B1171-90024	Yes
X Toolkit Intrinsics Programming	B1171-90026	Yes
X Toolkit Intrinsics Reference	B1171-90027	N/A
X Window System C Quick Reference	B1171-90028	N/A
Mastering Motif Widgets	B1171-90029	Yes
Motif 1.1 Information	B1171-90030	Yes
HP OSF/Motif Style Guide	B1171-90031	Yes
HP OSF/Motif Programmer's Reference	B1171-90032	Yes
HP OSF/Motif Programmer's Guide	B1171-90033	Yes
	B1171-90034	Yes
#0BM Starbase Programming		
Starbase Device Drivers Library	98592-90025	Yes
Starbase C Pocket Reference	98592-90031	N/A
Starbase FORTRAN Pocket Reference	98592-90041	N/A
Starbase Beginner's Guide	98592-90047	Yes
Starbase Pascal Pocket Reference	98592-90051	N/A
Starbase Reference	98592-90067	Yes
Starbase Graphics Techniques	98592-90080	N/A
HP Fast Alpha/Font Manager Programmer's	98592-90093	Yes
Starbase Radiosity and Ray Tracing	98885-90002	Yes
Starbase Display List Programmer's	B2361-90000	Yes
Additional Manuals included on CD-ROM		
ALLBASE/SQL Reference	36217-90001	Yes
ALLBASE/ISQL Reference	36217-90004	Yes
ALLBASE/SQL Database Administration Guide	36217-90005	Yes
ALLBASE/SQL Message	36217-90009	Yes
ALLBASE/SQL Quick Reference	36217-90012	Yes
ALLBASE/SQL FORTRAN Application Programming	36217-90013	Yes
ALLBASE/SQL C Application Programming	36217-90014	Yes
ALLBASE/NET User's Guide	36217-90093	Yes
EISA Configuration Utility for HP-UX	B2370-90000	Yes
FORTRAN/9000 Reference	B1688-90000	Yes
HP Pascal Language Reference	B1689-90000	Yes
HP-GKS User's Guide	B2362-90001	Yes
HP-GKS Device Drivers Library	B2362-90002	Yes
Native Language I/O System Administrators Guide	92559-90001	Yes
Native Language I/O Access User's Guide	92559-90002	Yes
Terminal Session Manager: User's Guide	B2351-90000	Yes
N/A: Not Available		



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Systems Division**

HP-UX

HP Apollo 9000 Series 400

B1864A for Series 300/400	Part numbers	CD-ROM
#0BF General Programming		
LLA Programmer's Guide	98194-60524	N/A
Berkeley IPC Programmer's Guide	98194-60525	N/A
NetIPC Programmer's Guide	98194-60527	N/A
Programming and Protocols for NFS Services	B1013-90010	Yes
HP-UX Reference	B1864-90000	Yes
Posix Conformance Document	B1864-90001	Yes
Device I/O: DIL, HP-HIL	B1864-90002	Yes
Native Language Support	B1864-90003	Yes
HP-UX Assembler and Tools	B1864-90004	Yes
HP-UX Portability Guide	B1864-90006	Yes
Programming on HP-UX	B1864-90007	Yes
#0BL User Environment		
HP VUE User Environment Programmer's Guide	B1171-90024	Yes
Programming with Xlib	B1171-90026	Yes
X Toolkit Intrinsic Programming	B1171-90027	N/A
X Toolkit Intrinsic Reference	B1171-90028	N/A
X Window System C Quick Reference	B1171-90029	Yes
Mastering Motif Widgets	B1171-90030	Yes
Motif 1.1 Information	B1171-90031	Yes
HP OSF/Motif Style Guide	B1171-90032	Yes
HP OSF/Motif Programmer's Reference	B1171-90033	Yes
HP OSF/Motif Programmer's Guide	B1171-90034	Yes
#0BM Starbase Programming		
Starbase Device Drivers Library	98592-90025	Yes
Starbase C Pocket Reference	98592-90031	N/A
Starbase FORTRAN Pocket Reference	98592-90041	N/A
Starbase Beginner's Guide	98592-90047	Yes
Starbase Pascal Pocket Reference	98592-90051	N/A
Starbase Reference	98592-90067	Yes
Starbase Graphics Techniques	98592-90080	N/A
HP Fast Alpha/Font Manager Programmer's	98592-90093	Yes
Starbase Radiosity and Ray Tracing	98885-90002	Yes
Starbase Display List Programmer's	B2361-90000	Yes
Additional Manuals included on CD-ROM		
ALLBASE/SQL Reference	36217-90001	Yes
ALLBASE/ISQL Reference	36217-90004	Yes
ALLBASE/SQL Database Administration Guide	36217-90005	Yes
ALLBASE/SQL Message	36217-90009	Yes
ALLBASE/SQL Quick Reference	36217-90012	Yes
ALLBASE/SQL FORTRAN Application Programming	36217-90013	Yes
ALLBASE/SQL C Application Programming	36217-90014	Yes
ALLBASE/NET User's Guide	36217-90093	Yes
EISA Configuration Utility for HP-UX	B2370-90000	Yes
FORTRAN/9000 Reference	B1688-90000	Yes
HP Pascal Language Reference	B1689-90000	Yes
HP-GKS User's Guide	B2362-90001	Yes
HP-GKS Device Drivers Library	B2362-90002	Yes
Native Language I/O System Administrators Guide	92559-90001	Yes
Native Language I/O Access User's Guide	92559-90002	Yes
Terminal Session Manager: User's Guide	B2351-90000	Yes
N/A: Not Available		



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Workstation
Systems Division

HP-UX

HP Apollo 9000 Series 400

MATURE PRODUCTS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425t FLEXIBLE STRUCTURE

A1630E	Model 425t SPU Includes: - 25MHz MC68040 processor - 8MB ECC RAM, expandable to 64MB - 32 bit DIO-II graphics slot - Internal I/O - HP-HIL interface - Domain keyboard interface - RS-232C serial interface, expandable to 3 interfaces - SCSI interface - Parallel (Centronics) interface - IEEE 802.3 Ethernet LAN interface with ThinLAN and BNC "T" connector and AUI (jumper selectable) (configured to activate ThinLAN and BNC connector; May be configured to activate AUI instead with Opt. AL9) - License-to-use: HP-UX (2-user, all revisions through HP-UX 8.0) - License-to-use: Domain OS (Sys V.3, BSD4.3, AEGIS)	Localization Kit A1099A Min. HP-UX Rev. 7.05	\$6,890	\$17.
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NOTE: The Model 425t SPU may not be ordered without also ordering a graphics card. A graphics monitor may be ordered separately. The graphics are required for proper operation of the SPU.

Primary Operating System

Must include

#AG1	HP-UX (Must order operating system media and documentation separately).		N/C	N/C
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Graphics

Must choose one

#AD7	Add 1280 X 1024 VRX Monochrome graphics interface		\$2,000.	N/C
#AD8	Add 1280 X 1024 VRX Color graphics interface		\$4,000.	N/C
#ADB	Add 1280 X 1024 Personal VRX P2 graphics subsystem		\$14,000.	\$27
#ADM	Add 1280 X 1024 Personal VRX P3 graphics subsystem with Personal Visualizer software		\$18,000.	\$33

Monitors

May choose one

#ADG	19" Monochrome 1280 X1024	Option AD7	N/C	\$10.
#ADH	16" Color 1280 X1024	Not avail. with #AD7	N/C	\$5.
#ADJ	19" Color 1280 X1024	Not avail. with #AD7	\$2,000.	\$25.

Memory

May choose up to three of #AN4 and #AN8 combined

#AN4	Add 8MB RAM (1 Mbit DRAM)		\$1,200.	\$2.
#AN5	Convert original 8MB RAM (1 Mbit DRAM) to 16MB (4 Mbit DRAM)		\$1,200.	\$6.
#AN8	Add 16MB RAM (4 Mbit DRAM)		\$2,400.	\$8.

Additional I/O

May choose any

#AL5	Add IEEE-488 HP-IB with cable, standard speed		N/C	N/C
#AL9	Select LAN AUI configuration		N/C	N/C



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Workstation
Systems Division

HP-UX

HP Apollo 9000 Series 400

MATURE PRODUCTS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425s FLEXIBLE STRUCTURE

A1421B	Model 425s SPU Includes: - 25MHz MC68040 processor - 8MB ECC RAM, expandable to 128MB - 2 - 32 bit DIO-II graphics slots - Internal I/O - HP-HIL interface - Domain keyboard interface - RS-232C serial interface, expandable to 3 interfaces - SCSI interface - Parallel (Centronics) interface - IEEE 802.3 Ethernet LAN interface with ThinLAN and BNC "T" connector and AUI (jumper selectable) (configured to activate ThinLAN and BNC connector; May be configured to activate AUI instead with Opt. AL9) - License-to-use: HP-UX (2-user, all revisions through HP-UX 8.0) - License-to-use: Domain OS (Sys V.3, BSD4.3, AEGIS)	Localization Kit A1099A Min. HP-UX Rev. 7.05	\$11,890	\$24.
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Primary Operating System

Must include

#AG1	HP-UX (Must order operating system media and documentation separately).		N/C	N/C
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Graphics

Must choose one

#AD7	Add 1280 X 1024 VRX Monochrome graphics interface		\$2,000.	N/C
#AD8	Add 1280 X 1024 VRX Color graphics interface		\$4,000.	N/C
#ADB	Add 1280 X 1024 Personal VRX P2 graphics subsystem		\$14,000.	\$27
#ADM	Add 1280 X 1024 Personal VRX P3 graphics subsystem with Personal Visualizer software		\$18,000.	\$33
#ADD	Add 1280 X 1024 TurboVRX T1 graphics subsystem with Personal Visualizer software		\$40,000.	\$85
#ADE	Add 1280 X 1024 TurboVRX T2 graphics subsystem with Personal Visualizer software		\$60,000.	\$130
#ADF	Add 1280 X 1024 TurboVRX T3 graphics subsystem with Personal Visualizer software		\$80,000.	\$170

Monitors

May choose one

#ADG	19" Monochrome 1280 X1024	Option AD7	N/C	\$10.
#ADH	16" Color 1280 X1024	Opts. AD8, ADB, ADM only	N/C	\$5.
#ADJ	19" Color 1280 X1024	Not avail. with #AD7	\$2,000.	\$25.

Memory

May choose up to three of #AN4 and #AN6 combined

#AN1	Convert original 8MB RAM (1 Mbit DRAM) to 32MB (4 Mbit DRAM)		\$3,600.	\$12.
#AN4	Add 8MB RAM (1 Mbit DRAM)		\$1,200.	\$2.
#AN6	Add 32MB RAM (4 Mbit DRAM)		\$4,800.	\$14.



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Workstation
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HP-UX HP Apollo 9000 Series 400

MATURE PRODUCTS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425s FLEXIBLE STRUCTURE Cont'd

Add Cache Memory

May choose

#AN9	Add 128KB External Cache		\$1,000.	N/C.
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Full Height Internal Mass Storage

May choose one of each, maximum of two

#AM4	Add 660MB SCSI Disk	Opt. AM4	\$5,000.	\$15.
#AM6	Add second 660MB SCSI Disk		\$5,000.	\$15.
#AM7	Add 1.3GB DAT Drive		\$4,700.	\$26.

Half Height Internal Mass Storage

May choose

#AM8	Add 600MB CD-ROM Drive		\$1,000.	\$18.
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Internal I/O

May choose one

#AL0	Add 3 DIO-II slot internal expander		\$2,000.	N/C
#AL2	Add 4 EISA slot internal expander		\$2,000.	N/C

Additional I/O

May choose any

#AL5	Add IEEE-488 HP-IB with cable, standard speed		N/C	N/C
#AL9	Select LAN AUI configuration		N/C	N/C

Disk Software Pre-load

May choose

#0D7	HP-UX 7.05 Instant Ignition software pre-load	Opt. AM4	\$75.	N/C
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HP-UX

HP Apollo 9000 Series 400

DISCONTINUED PRODUCTS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425t WORKSTATIONS

Model 425t VRX Monochrome Workstations (1280X1024)

A2101A	VRX, 19" monochrome monitor, 16MB RAM, 210MB disk, HP-IB, HP-UX 7.05 Instant Ignition. Available options ANB, AL9		\$13,465.	\$40.
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Model 425t GRX Grayscale Workstations (1280X1024)

A2160A	GRX, 19" grayscale monitor, 16MB RAM, 210MB disk, HP-IB, HP-UX 8.0 Instant Ignition Available options AN2, AL9		\$13,490.	\$49.
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Model 425t VRX Color 2D Workstations (1024 X 1024)

A2104A	VRX, 16" color monitor, 16MB RAM, 210MB disk, HP-IB HP-UX 7.05 Instant Ignition Available options AM2, AL9		\$15,465.	\$35.
A2105A	VRX, 19" color monitor, 16MB RAM, 210MB disk, HP-IB HP-UX 7.05 Instant Ignition Available options AM2, AL9		\$17,465.	\$49.

Model 425t VRX Color 2D Workstations (1024 X 1024)

A2161A	CRX, 19" color monitor, 16MB RAM, 210MB disk, HP-IB HP-UX 8.0 Instant Ignition Available options AM2, AL9		\$17,490.	\$63.
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Model 425t Personal VRX P3 3D Workstations (1280 X 1024)

A2106A	Personal VRX P3, 19" color monitor, 16MB RAM, 2x210MB disk HP-IB, HP-UX 7.05 Instant Ignition Available options AL9		\$33,465.	\$95.
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MODEL 425t FACTORY INTEGRATED OPTIONS

Internal Storage

#AM2	Add 210MB SCSI disk drive, factory integrated. <i>Maximum of one option AM2 per workstation.</i>	Model 425t systems with 210MB disks	\$2,000.	\$7.
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MODEL 425t ADD-ON OPTIONS (customer or field installed)

ADD ECC RAM

98229C	ADD 4MB ECC RAM set (1 Mbit) add-on	Models 400t, 425t	\$1,250.	\$4.
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INTERNAL STORAGE

A1440A	210MB internal SCSI Disk <i>Maximum of two internal storage devices per workstation</i>	Models 400t, 425t	\$2,000.	\$7.
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DOMAIN/OS HP Apollo 9000 Series 400

DOMAIN/OS LOCALIZATION KIT

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service	
A1098A	Domain/OS Localization kit. Includes keyboard, mouse and power cord.	Must order localization option.	\$100.		
Localized options #ABA through #AKH (below) <i>Includes country specific keyboard and country specific power cord</i>			N/C		
#ABA	English Keyboard, N. American power cord	#ACW	English Keyboard, German power cord	#ABF	French keyboard & power cord.
#ABG	English Keyboard, Australian power cord	#ACY	English Keyboard, Swedish/Finnish power cord	#ABJ	Japanese keyboard & power cord.
#ACC	English Keyboard, U.K. power cord	#ACZ	English Keyboard, Netherlands power cord	#ABN	Norwegian keyboard & power cord.
#ACD	English Keyboard, Swiss power cord	#AKJ	English Keyboard, Israeli power cord	#ABS	Swedish/Finnish keyboard & power cord.
#ACE	English Keyboard, Danish power cord	#AKK	English Keyboard, Italian power cord	#ABU	U.K. keyboard & power cord.
#ACF	English Keyboard, Japanese power cord	#ABD	German keyboard & power cord.	#ABY	Danish keyboard & power cord.
#ACK	English Keyboard, Norwegian power cord			#AKH	Swiss keyboard & power cord.



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*Workstation
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DOMAIN/OS HP Apollo 9000 Series 400

Model 425e Desktop Workstations

System Standard Features

- 25MHz MC68040 processor
- delivers 11 SPECmarks, 22 MIPS, and 2.6 MFLOPS
- 8MB ECC SIMM RAM, expandable to 48MB
- configurable with a maximum of 2 internal storage devices
- 3 asynchronous RS-232C ports
- 1 parallel (Centronics compatible) port
- 1 external SCSI port (support for a total of up to 7 devices - including internal)
- IEEE 802.3 Ethernet LAN interface configured with ThinLAN (may be converted optionally to LAN AUI)
- Audio I/O port
- HP-HIL port
- Apollo keyboard port
- auto selecting power supply 115V/230V
- operating environment: Domain/OS (Sys V.3, BSD4.3, AEGIS) 2 user license-to-use
- Deskside Pedestal



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DOMAIN/OS HP Apollo 9000 Series 400

MODEL 425e WORKSTATIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Model 425e EVRX Grayscale Workstations (1280X1024)

A2145A	EVRX, 19" grayscale monitor, 8MB RAM, diskless Available options ANB, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$5,390.	\$23.
A2146A	EVRX, 19" grayscale monitor, 8MB RAM, 210MB disk drive Available options ANB, AMB, AM8, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$7,390.	\$37.
A2147A	EVRX, 19" grayscale monitor, 16MB RAM, 420MB disk drive Available options ANF, AMB, AM8, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$8,890.	\$51.

Model 425e EVRX Color 2D Workstations (1024 X 768)

A2149A	EVRX, 16" color monitor, 8MB RAM, diskless Available options ANB, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$7,390.	\$21.
A2150A	EVRX, 16" color monitor, 8MB RAM, 210MB disk drive Available options ANB, AMB, AM8, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$9,390.	\$35.
A2151A	EVRX, 16" color monitor, 16MB RAM, 420MB disk drive Available options ANF, AMB, AM8, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$10,890.	\$49.

Model 425e EVRX Color 2D Workstations (1280 X 1024)

A2154A	EVRX, 19" color monitor, 8MB RAM, diskless Available options ANB, AL9	Localization Kit A1098A See page B-61 SR10.3.5	9,890.	\$37.
A2155A	EVRX, 19" color monitor, 16MB RAM, 210MB disk drive Available options ANF, AMB, AM8, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$12,890.	\$55.
A2156A	EVRX, 19" color monitor, 16MB RAM, 420MB disk drive Available options ANF, AMB, AM8, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$13,390.	\$65.



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Workstation
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DOMAIN/OS

HP Apollo 9000 Series 400

MODEL 425e WORKSTATIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425e FACTORY INTEGRATED OPTIONS

Memory

#ANB	Add 8MB memory for a total of 16MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation.</i>	Model 425e Domain/OS diskless systems, or A2146A, A2150A	\$1,000.	\$4.
#ANF	Add 8MB memory for a total of 24MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation.</i>	Model 425e Domain/OS 19" color or 420MB disk systems	\$1,000.	\$4.

Internal Storage

#AMB	Add 1.4MB 3.5" SCSI floppy disk drive, factory integrated. <i>Maximum of one option AMB per workstation. May NOT be ordered concurrently with option AM8.</i>	Model 425e Domain/OS systems with disks	\$500.	\$5.
#AM8	Add 600MB SCSI CD-ROM, factory integrated. <i>Maximum of one option AM8 per workstation. May NOT be ordered concurrently with option AMB.</i>	Model 425e Domain/OS systems with disks	\$1,000.	\$18.

Other Options

#AL9	Factory select LAN AUI configuration. This option overrides default ThinNET Ethernet connection.	External Transceiver Required.	N/C	N/C
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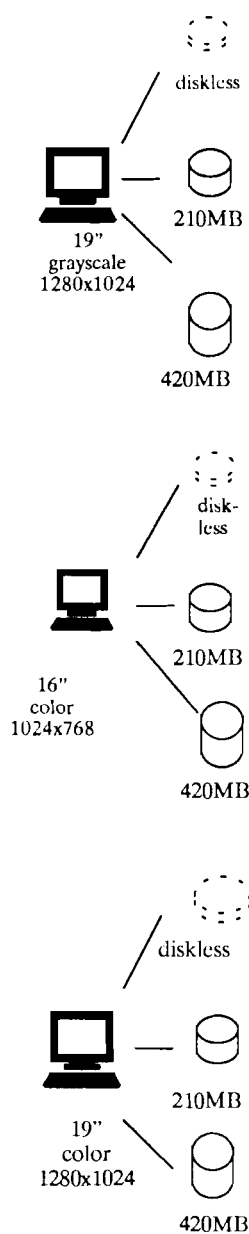


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DOMAIN/OS HP Apollo 9000 Series 400

Model 425e Factory Integrated Configuration Matrix



		MEMORY		INTERNAL STORAGE		OTHER OPTIONS
		Only one memory option may be ordered per workstation.		Only one removable media option may be ordered per workstation.		Order one only.
		Opt. ANB 16MB Total	Opt. ANF 24MB Total	Opt. AMB Floppy Disk	Opt. AM8 CD-ROM	Opt. AL9 AUI LAN
19" grayscale 1280x1024	A2145A 8MB RAM	\$5,390	\$1,000			N/C
	A2146A 8MB RAM	\$7,390	\$1,000	\$500	\$1,000	N/C
	A2147A 16MB RAM	\$8,890	\$1,000	\$500	\$1,000	N/C
16" color 1024x768	A2149A 8MB RAM	\$7,390	\$1,000			N/C
	A2150A 8MB RAM	\$9,390	\$1,000	\$500	\$1,000	N/C
	A2151A 16MB RAM	\$10,890	\$1,000	\$500	\$1,000	N/C
19" color 1280x1024	A2154A 8MB RAM	\$9,890	\$1,000			N/C
	A2155A 16MB RAM	\$12,890	\$1,000	\$500	\$1,000	N/C
	A2156A 16MB RAM	\$13,390	\$1,000	\$500	\$1,000	N/C



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DOMAIN/OS

HP Apollo 9000 Series 400

MODEL 425e WORKSTATIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425e ADD-ON OPTIONS (customer or field installed)

ADD ECC RAM

A2200A	4MB ECC SIMM RAM set add-on	Model 425e	\$1,000.	\$2.
A2201A	8MB ECC SIMM RAM set add-on	Model 425e	\$1,000.	\$4.
A2202A	16MB ECC SIMM RAM set add-on	Model 425e	\$2,000.	\$8.

INTERNAL STORAGE

A2071A	210MB internal SCSI Disk Drive <i>Maximum of two internal storage devices per workstation</i>	Model 425e	\$2,000.	\$14.
A2072A	420MB internal SCSI Disk Drive <i>Maximum of two internal storage devices per workstation</i>	Model 425e	\$2,500.	\$24.
A2073A	1.4MB 3.5" SCSI floppy Disk Drive <i>Maximum of two internal storage devices per workstation</i>	Model 425e	\$500.	N/C
A2074A	600MB SCSI CD-ROM Drive <i>Maximum of two internal storage devices per workstation</i>	Model 425e	\$1,000.	\$18.
A2274A	2GB 3.5" DDS-format 4mm Tape Drive <i>Must order #AHP</i>	Model 425e	\$2,500.	

#AHP Upgrade kit for Model 425e

N/C



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*Workstation
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DOMAIN/OS HP Apollo 9000 Series 400

Model 425t Desktop Workstations

System Standard Features

- 25MHz MC68040 processor
- delivers 11 SPECmarks, 22 MIPS, and 2.6 MFLOPS
- 8MB ECC RAM, expandable to 64MB
- configurable with a maximum of 2 internal disks
- 1 asynchronous RS-232C port
- 1 parallel (Centronics compatible) port
- 1 external SCSI port (support for a total of up to 7 devices - including internal)
- IEEE 802.3 Ethernet LAN interface configured with ThinLAN (may be converted optionally to LAN AUI)
- Apollo Token Ring Interface
- HP-HIL port
- Apollo keyboard port
- auto selecting power supply 115V/230V
- operating environment: Domain/OS (Sys V.3, BSD4.3, AEGIS) 2 user license-to-use
- stand and labels for optional deskside use



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Workstation
Systems Division

DOMAIN/OS

HP Apollo 9000 Series 400

MODEL 425t WORKSTATIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
Model 425t VRX Monochrome Workstations (1280X1024)				
A2108A	VRX, 19" monochrome monitor, 8MB RAM, diskless, Apollo Token Ring interface Available options ANB, AL9	Localization Kit A1098A See page B-61 SR10.3.4	8,890.	\$37.
Model 425t GRX Grayscale Workstations (1280X1024)				
A2172A	GRX, 19" grayscale monitor, 8MB RAM, diskless, Apollo Token Ring interface Available options ANB, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$8,890.	\$41.
A2173A	GRX, 19" grayscale monitor, 16MB RAM, 420MB disk, Apollo Token Ring interface Available options AMT, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$12,590.	\$69.
Model 425t VRX Color 2D Workstations (1280 X 1024)				
A2110A	VRX, 16" color monitor, 8MB RAM, diskless, Apollo Token Ring interface Available options ANB, AL9	Localization Kit A1098A See page B-61 SR10.3.4	\$10,890.	\$32.
A2111A	VRX, 19" color monitor, 8MB RAM, diskless, Apollo Token Ring interface Available options ANB, AL9	Localization Kit A1098A See page B-61 SR10.3.4	\$12,890.	\$52.
A2174A	VRX, 19" color monitor, 16MB RAM, 420MB disk drive, Apollo Token Ring interface Available options AMT, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$16,590.	\$83.
Model 425t CRX Color 2D Workstations (1280 X 1024)				
A2175A	CRX, 19" color monitor, 8MB RAM, diskless, Apollo Token Ring interface Available options ANB, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$12,890.	\$55.
A2176A	CRX, 19" color monitor, 16MB RAM, 420MB disk drive, Apollo Token Ring interface Available options AMT, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$16,590.	\$83.
Model 425t Personal VRX P3 3D Workstations (1280 X 1024)				
A2177A	Personal VRX P3, 19" color monitor, 16MB RAM, 420MB disk, Apollo Token Ring interface Available options AMT, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$30,590.	\$116.



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MODEL 425t WORKSTATIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425t FACTORY INTEGRATED OPTIONS

Memory

#ANB	Add 8MB memory for a total of 16MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation.</i>	Model 425t diskless systems	\$1,200.	\$6.
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Internal Storage

#AMT	Add 420MB SCSI disk drive, factory integrated. <i>Maximum of one option AMT per workstation.</i>	Model 425t systems with 420MB disks	\$2,500.	\$24
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Other Options

#AL9	Factory select LAN AUI configuration. This option overrides default ThinNET Ethernet connection.	External Transceiver Required.	N/C	N/C
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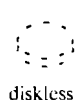
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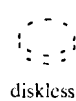
Model 425t Factory Integrated Configuration Matrix

19" mono VRX
1280x1024



diskless

16" color VRX
1280x1024



diskless

19" color VRX
1280x1024



diskless



420MB

19" GRX
grayscale
1280x1024



diskless



420MB

19" CRX color
1280x1024



diskless



420MB

19" PVRX
3D color
1280x1024



420MB

		MEMORY	INTERNAL STORAGE	OTHER OPTIONS
		Only one memory option may be ordered per workstation.	Only one internal storage option may be ordered per workstation.	Order one only.
		Opt. ANB 16MB Total	Opt. AMT Add 420 Mbyte Disk	Opt. AL9 AUI LAN
A2108A 8MB RAM ATR Card	\$8,890	\$1,200		N/C
A2110A 8MB RAM ATR Card	\$10,890	\$1,200		N/C
A2111A 8MB RAM ATR Card	\$12,890	\$1,200		N/C
A2174A 16MB RAM ATR Card.	\$16,590		\$2,500	N/C
A2172A 8MB RAM ATR Card	\$8,890	\$1,200		N/C
A2173A 16MB RAM ATR Card.	\$12,590		\$2,500	N/C
A2175A 8MB RAM ATR Card.	\$12,890	\$1,200		N/C
A2176A 16MB RAM ATR Card.	\$16,590		\$2,500	N/C
A2177A 16MB RAM ATR Card.	\$30,590		\$2,500	N/C



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MODEL 425t WORKSTATIONS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425t ADD-ON OPTIONS (customer or field installed)

ADD ECC RAM

98229B	ADD 8MB ECC RAM set (1 Mbit) add-on	Models 400t, 425t	\$1,200.	\$2.
98229D	ADD 16MB ECC RAM set (4 Mbit) add-on	Model 425t	\$2,400.	\$8.

INTERNAL STORAGE

A2075A	420MB internal SCSI Disk Drive <i>Maximum of two internal storage devices per workstation</i>	Model 425t with SR10.3.5	\$2,500.	\$24.
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Model 425s Deskside Workstations

System Standard Features

- 25MHz MC68040 processor
- delivers 11 SPECmarks, 22 MIPS, and 2.6 MFLOPS
- 16MB ECC RAM, expandable to 128MB
- configurable for internal mass storage
 - 2 full height 5.25" bays
 - 2 half height 5.25" bays
- 1 asynchronous RS-232C port (expandable to 3 with K2292)
- 1 parallel (Centronics compatible) port
- 1 external SCSI port (support for a total of up to 7 devices – including internal)
- IEEE 802.3 Ethernet LAN interface configured with ThinLAN (may be converted optionally to LAN AUI)
- Apollo Token Ring Interface
- 4 Slot EISA Internal I/O expander
- HP-HIL port
- Apollo keyboard port
- auto selecting power supply 115V/230V
- operating environment: Domain/OS (Sys V.3, BSD4.3, AEGIS) 2 user license-to-use



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MODEL 425s DESKSIDE WORKSTATIONS/SERVER

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service	
Model 425s VRX Monochrome Workstations (1280X1024)					
A2123A	VRX, 19" monochrome monitor, 16MB RAM, 660MB disk drive, Internal EISA expander, Apollo Token Ring interface Available options ANC, AMA, AN9, AL9	Localization Kit A1098A See page B-61 SR10.3.4	\$22,890.	\$65.	
Model 425s GRX Grayscale Workstations (1280X1024)					
A2190A	GRX, 19" grayscale monitor, 16MB RAM, 660MB disk drive, Internal EISA expander, Apollo Token Ring interface Available options ANC, AMQ, AN9, AM9, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$22,890.	\$67.	
Model 425s VRX Color 2D Workstations (1280X1024)					
A2124A	VRX, 19" color monitor, 16MB RAM, 660MB disk drive, Internal EISA expander, Apollo Token Ring interface Available options ANC, AMA, AN9, AM9, AL9	Localization Kit A1098A See page B-61 SR10.3.4	\$26,890.	\$80.	
Model 425s CRX Color 2D Workstations (1280X1024)					
A2193A	CRX, 19" color monitor, 16MB RAM, 660MB disk drive, Internal EISA expander, Apollo Token Ring interface Available options ANC, AMQ, AN9, AM9, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$26,890.	\$81.	
A2194A	CRX, 19" color monitor, 16MB RAM, 1.3GB disk drive, 1.3GB DAT tape drive, 600MB CD-ROM drive, Internal EISA expander, Apollo Token Ring interface Available options ANC, AM9, AN9, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$33,590.	\$136.	
Model 425s Personal VRX P3 3D Workstations (1280 X 1024)					
A2125A	Personal VRX P3, 19" color monitor, 32MB RAM, 660MB disk, QIC format tape drive, Internal EISA expander, Apollo Token Ring interface Available options ANE, AMA, AN9, AL9	Localization Kit A1098A See page B-61 SR10.3.4	\$45,290.	\$144.	
A2196A	Personal VRX P3, 19" color monitor, 32MB RAM, 1.3GB disk, Internal EISA expander, Apollo Token Ring interface Available options ANE, AN9, AM9, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$44,290.	\$133.	
Model 425s Server (No graphics)					
A2126A	16MB RAM, 660MB disk, Internal EISA expander, Apollo Token Ring interface Available options ANC, AMA, AN9, AM9, AL9, 900, 901, 902, 903, 906, 912, 917, 918, 919	Must order power cord option SR10.3.4	\$20,890.	\$55.	
A2199A	16MB RAM, 1.3GB disk, Internal EISA expander, Apollo Token Ring interface Available options ANC, AM7, AN9, AM9, AL9, 900, 901, 902, 903, 906, 912, 917, 918, 919	Must order power cord option SR10.3.5	\$21,890.	\$68.	
Server Power Cord options #900 through #919 (below)			N/C		
#900	United Kingdom	#903	North America, Taiwan, Korea	#917	Republic of South Africa, India
#901	Australia, New Zealand	#906	Switzerland	#918	Japan
#902	European	#912	Denmark	#919	Israel



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MODEL 425s DESKSIDE WORKSTATIONS/SERVER

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425s FACTORY INTEGRATED OPTIONS

Memory

#ANC	Add 16MB memory for a total of 32MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation.</i>	Model 425s 2D graphics or server systems	\$2,400.	\$12.
#ANE	Add 32MB memory for a total of 64MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation.</i>	Model 425s 3D graphics systems	\$4,800.	\$14.

Internal Storage

#AMA	Add Second 660MB disk drive, factory integrated. <i>Fills second of two supported internal disk bays.</i>	A2123A, A2124A, A2125A, A2126A	\$5,000.	\$15.
#AMQ	Replace internal 660MB Disk with 1.3GB SCSI disk drive, factory integrated. <i>Maximum of one option AMQ per workstation.</i>	Model 425s systems with SR10.3.5	\$1,000	\$11
#AM7	Add 4mm 1.3GB SCSI DDS tape drive, factory integrated. <i>Maximum of one option AM7 per workstation.</i>	A2199A Only	\$4,700.	\$26.
#AM9	Add 1/4" QIC format tape drive, factory integrated. <i>Maximum of one option AM9 per workstation</i>	A2124A, A2126A, A2190A, A2193A, A2196A, A2199A	\$2,000.	\$25.

Other Options

#AL9	Factory select LAN AUI configuration. <i>This option overrides default ThinNET Ethernet connection.</i>	External Transceiver Required.	N/C	N/C
#AN9	Add 128KB external cache memory, factory integrated.	Model 425s	\$1,000	N/C



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Model 425s Factory Integrated Configuration Matrix

			Memory		Internal Storage				Other Options	
			Only one memory option may be ordered per workstation		No more than one of each available option may be ordered per workstation.				No more than one of each option may be ordered per workstation.	
			Opt ANC 32MB Total	Opt ANE 64MB Total	Opt AMA Second 660MB Disk	Opt AMQ Replace 660 Disk with 1.3GB	Opt AM7 DDS 4mm Tape Drive	Opt AM9 1/4" QIC Tape Drive	Opt AN9 128KB Cache Memory	Opt AL9 AUI LAN
19" mono VRX 1280x1024  660MB EISA Exp 19" Grayscale GRX 1280x1024  660MB EISA Exp 19" color VRX 1280x1024  660MB EISA Exp 19" color CRX 1280x1024  660MB EISA Exp  1.3GB EISA Exp 19" 3D color PVRX P3 1280x1024  660MB EISA Exp  1.3GB EISA Exp Server (no graphics)  660MB EISA Exp  1.3GB EISA Exp	A2123A 16MB RAM ATR card	\$22,890	\$2,400		\$5,000				\$1,000	N/C
	A2190A 16MB RAM ATR card	\$22,890	\$2,400			\$1,000		\$2,000	\$1,000	N/C
	A2124A 16MB RAM ATR card	\$26,890	\$2,400		\$5,000			\$2,000	\$1,000	N/C
	A2193A 16MB RAM ATR card	\$26,890	\$2,400			\$1,000		\$2,000	\$1,000	N/C
	A2194A 16MB RAM CD-ROM Drive DAT Tape Drive ATR card	\$33,590	\$2,400						\$1,000	N/C
	A2125A 32MB RAM QIC Tape Drive ATR card	\$45,290		\$4,800	\$5,000				\$1,000	N/C
	A2196A 32MB RAM ATR card	\$44,290		\$4,800				\$2,000	\$1,000	N/C
	A2126A 16MB RAM ATR card	\$20,890	\$2,400		\$5,000			\$2,000	\$1,000	N/C
	A2199A 16MB RAM ATR card	\$21,890	\$2,400				\$4,700	\$2,000	\$1,000	N/C



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MODEL 425s DESKSIDE WORKSTATIONS/SERVER

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425s ADD-ON OPTIONS (customer or field installed)

ADD ECC RAM

98229B	ADD 8MB ECC RAM set (1 Mbit) add-on	Models 400s, 425s	\$1,200.	\$2.
98229D	ADD 16MB ECC RAM set (4 Mbit) add-on	Models 400s, 425s	\$2,400.	\$8.
98229E	ADD 32MB ECC RAM set (4 Mbit) add-on	Models 400s, 425s	\$4,800.	\$14.

INTERNAL STORAGE

A1444A	660MB internal SCSI Disk Drive <i>Maximum of two internal disks supported per workstation</i>		\$5,000.	\$15.
A2076A	1.3GB internal SCSI Disk Drive <i>Maximum of two internal disks supported per workstation</i>	Model 425s SR10.3.5	\$6,000.	\$26.
A1447A	Add 1.3GB 4mm internal SCSI DDS-format DAT Drive <i>Maximum of one DDS drive and one disk drive supported per workstation</i>	SR10.3.5	\$4,700.	\$26.
A1448A	600MB internal SCSI CD-ROM Drive <i>Maximum of one DDS drive and one disk drive supported per workstation</i>	SR10.3.5	\$1,000.	\$18.
A1449A	1/4" QIC format internal SCSI tape drive <i>Maximum of one DDS drive and one disk drive supported per workstation</i>		\$2,000.	\$25.
A2274A	2GB 3.5" DDS-format 4mm Tape Drive <i>Must order #AHQ</i>	Model 425s SR10.3.5	\$2,500.	
#AHQ	Upgrade kit for Model 425s		N/C	



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Model 433s Deskside Workstations

System Standard Features

- 33MHz MC68040 processor
- delivers 14 SPECmarks, 29 MIPS, and 3.2 MFLOPS
- 16MB ECC RAM, expandable to 128MB
- configurable for internal mass storage
 - 2 full height 5.25" bays
 - 2 half height 5.25" bays
- 1 asynchronous RS-232C port (expandable to 3 with K2292)
- 1 parallel (Centronics compatible) port
- 1 external SCSI port (support for a total of up to 7 devices – including internal)
- IEEE 802.3 Ethernet LAN interface configured with ThinLAN (may be converted optionally to LAN AUI)
- Apollo Token Ring Interface
- 4 Slot EISA Internal I/O expander
- HP-HIL port
- Apollo keyboard port
- auto selecting power supply 115V/230V
- operating environment: Domain/OS (Sys V.3, BSD4.3, AEGIS) 2 user license-to-use



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MODEL 433s DESKSIDE WORKSTATIONS/SERVER

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Model 433s GRX Grayscale Workstations (1280X1024)

A2535A	GRX, 19" grayscale monitor, 16MB RAM, 1.3GB disk drive, Internal EISA expander, Apollo Token Ring interface Available options ANC, AMW, AM9, AN9, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$23,890.	
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Model 433s CRX Color 2D Workstations (1280X1024)

A2536A	CRX, 19" color monitor, 16MB RAM, 1.3GB disk drive, Internal EISA expander, Apollo Token Ring interface Available options ANC, AMW, AM9, AN9, AL9	Localization Kit A1098A See page B-61 SR10.3.5	\$27,890.	
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Model 433s Server (No graphics)

A2537A	16MB RAM, 1.3GB disk, Internal EISA expander, Apollo Token Ring interface Available options ANC, AMG, AMW, AM9, AN9, AL9, 900, 901, 902, 903, 906, 912, 917, 918, 919	Must order power cord option SR10.3.5	\$21,890.	
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Server Power Cord options #900 through #919 (below)

N/C

#900	United Kingdom	#903	North America, Taiwan, Korea	#917	Republic of South Africa, India
#901	Australia, New Zealand	#906	Switzerland	#918	Japan
#902	European	#912	Denmark	#919	Israel

Memory

#ANC	Add 16MB memory for a total of 32MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation.</i>	Model 433s 2D graphics or server systems	\$2,400.	\$12.
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Internal Storage

#AMG	Add Second 1.3GB Disk Drive, factory integrated. <i>Fills second of two supported internal disk bays.</i>	Model 433s server systems	\$6,000.	
#AMW	Add 2GB 4mm SCSI DDS Drive, factory integrated. <i>Maximum of one option AMW per workstation.</i>	Model 433s	\$2,500.	
#AM9	Add 1/4" QIC format tape drive, factory integrated. <i>Maximum of one option AM9 per workstation.</i>	Model 433s	\$2,000.	\$25.

Other Options

#AL9	Factory select LAN AUI configuration. This option overrides default ThinNET Ethernet connection.	External Transceiver Required.	N/C	N/C
#AN9	Add 128KB external cache memory, factory integrated.	Model 433s	\$1,000.	N/C



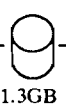
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Model 433s Factory Integrated Configuration Matrix

		Memory		Internal Storage			Other Options	
		Only one memory option may be ordered per workstation		No more than one of each available option may be ordered per workstation.			No more than one of each option may be ordered per workstation.	
		Opt ANC 32MB Total	Opt AMG Second 1.3GB Disk	Opt AMW Add 2 GB DDS- Format Tape Drive	Opt AM9 Add 1/4" QIC Format Tape Drive	Opt AN9 128KB Cache Memory	Opt AL9 LAN AUI	
19" Grayscale GRX 1280x1024  1.3GB  EISA Exp	A2535A 16MB RAM ATR Card	\$23,890	\$2,400		\$2,500	\$2,000	\$1,000	N/C
	A2536A 16MB RAM ATR Card	\$27,890	\$2,400		\$2,500	\$2,000	\$1,000	N/C
	A2537A 16MB RAM ATR Card	\$21,890	\$2,400	\$6,000	\$2,500	\$2,000	\$1,000	N/C
19" Color CRX 1280x1024  1.3GB  EISA Exp								
Server No Graphics  1.3GB  EISA Exp								



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MODEL 433s DESKSIDE WORKSTATIONS/SERVER

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 433s ADD-ON OPTIONS (customer or field installed)

ADD ECC RAM

98229B	ADD 8MB ECC RAM set (1 Mbit) add-on	Models 400s, 425s, 433s	\$1,200.	\$2.
98229D	ADD 16MB ECC RAM set (4 Mbit) add-on	Models 400s, 425s, 433s	\$2,400.	\$8.
98229E	ADD 32MB ECC RAM set (4 Mbit) add-on	Models 400s, 425s, 433s	\$4,800.	\$14.

INTERNAL STORAGE

A1444A	660MB internal SCSI Disk Drive <i>Maximum of two internal disks supported per workstation</i>	Model 400s, 425s, 433s	\$5,000.	\$15.
A2076A	1.3GB internal SCSI Disk Drive <i>Maximum of two internal disks supported per workstation</i>	Models 425s, 433s SR10.3.5	\$6,000.	\$26.
A1448A	600MB internal SCSI CD-ROM Drive	Model 400s, 425s, 433s SR10.3.5	\$1,000.	\$18.
A1449A	1/4" QIC format internal SCSI Tape Drive	Model 400s, 425s, 433s	\$2,000.	\$25.
A2274A	2GB 3.5" 4mm DDS-format Tape Drive <i>Must order #AHQ</i>	Model 400s, 425s, 433s SR10.3.5	\$2,500.	
#AHQ	Upgrade kit for Model 433s			N/C



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UPGRADES, EXTERNAL STORAGE & PERIPHERALS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
CPU Upgrades				
A2087A	Upgrades 425e to 710. IIP installed upgrade. Includes SPU, power supply, documentation and HP-UX operating system license transfer. HP-UX 8.07 is supplied either via instant ignition or via CE installed at time of installation.	Model 425e	\$5,890.	
AMY	420MB SCSI II disk		\$2,000.	
AN4	Adds 8MB memory		\$1,000.	
AN8	Adds 16MB memory		\$2,000.	
AL9	LAN AUI configuration		N/C	
A2041A	Model 400t to Model 425t Upgrade kit.	Model 400t	\$2,000	N/C
#AAS	Add Domain/OS 10.3 and PSK8 Media (1/4" QIC tape) and Manuals		\$595.	N/C
#0LX	Add Domain/OS PSK8 Media (1/4" QIC tape) and Manuals. <i>Software Support contract customers only.</i>		N/C	N/C
A2043A	Model 400s to Model 433s Upgrade kit.	Model 400s Min. Rev. SR10.3.4 (PSK 8)	\$4,000	N/C
#AAS	Add Domain/OS 10.3 and PSK8 Media (1/4" QIC tape) and Manuals		\$595.	N/C
#0LX	Add Domain/OS PSK8 Media (1/4" QIC tape) and Manuals. <i>Software Support contract customers only.</i>		N/C	N/C
A2045A	Model 400s to Model 425s Upgrade kit.	Model 400s	\$2,000	N/C
#AAS	Add Domain/OS 10.3 and PSK8 Media (1/4" QIC tape) and Manuals		\$595.	N/C
#0LX	Add Domain/OS PSK8 Media (1/4" QIC tape) and Manuals. <i>Software Support contract customers only.</i>		N/C	N/C
A2047A	Model 425s to Model 433s Upgrade kit.	Model 425s Min. Rev. SR10.3.4 (PSK 8)	\$4,000	N/C
#AAS	Add Domain/OS 10.3 and PSK8 Media (1/4" QIC tape) and Manuals		\$595.	N/C
#0LX	Add Domain/OS PSK8 Media (1/4" QIC tape) and Manuals. <i>Software Support contract customers only.</i>		N/C	N/C



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UPGRADES, EXTERNAL STORAGE & PERIPHERALS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
Graphics Upgrades				
A2078A	Upgrade Model 400t VRX graphics to Model 425t with CRX color graphics and 19" monitor. <i>Includes MC68040 CPU upgrade, HP Installation.</i>	Model 400t with color or monochrome VRX graphics	\$12,000	\$24.
A2079A	Upgrade Model 425t VRX graphics to Model 425t with CRX color graphics and 19" monitor. <i>Includes HP Installation.</i>	Model 425t with color or monochrome VRX graphics	\$10,000	\$24.
A2080A	Upgrade Model 400s VRX graphics to Model 425s with CRX color graphics and 19" monitor. <i>Includes MC68040 CPU upgrade, HP installation.</i>	Model 400s with color or monochrome VRX graphics	\$12,000	\$24.
A2081A	Upgrade Model 425s VRX graphics to Model 425s with CRX color graphics and 19" monitor. <i>Includes HP Installation.</i>	Model 425s with color or monochrome VRX graphics	\$10,000	\$24.
Mass Storage Systems				
C2213D	Model 660S Mass Storage System with 660MB SCSI drive	Series 400 except 400dl. Requires SCSI cable and terminator. See cable chart	\$5,175.	\$20.
#002	Add one 660MB Fixed disk drive		\$4,850.	
#022	Add two 660MB Fixed disksdrive		\$9,700.	
#003	Add DDS (4mm) Tape Drive		\$4,700.	\$28.
#004	Add 600MB CD-ROM Drive		\$1,250.	\$20.
#005	Add 650MB Magneto-Optical Drive		\$5,400.	\$19.
C2214B	Series 6000 Model 1350S Mass Storage System with 1.3GB SCSI Disk Drive.	Series 400 except 400dl. Requires SCSI cable and terminator. See cable chart Minimum Rev. SR10.3.5	\$6,200.	\$31.
C2290D	332MB Disk Upgrade for C2213D Mass Storage System	C2213D	\$4,200.	\$10.
C2291D	664MB Disk Upgrade for C2213D Mass Storage System	C2213D	\$5,050.	\$16.
C2295B	1.3GB Disk Upgrade for C2213D or C2214B Mass Storage System	C2213D, C2214B Install option	\$5,800.	\$27.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	
C2293A	600MB CD-ROM Upgrade for C2213D Mass Storage System	C2213D Install option	\$1,250.	\$18.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	



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UPGRADES, EXTERNAL STORAGE & PERIPHERALS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
Mass Storage Systems				
C2292A	1.3GB DDS-Format 4mm Tape Drive Upgrade for C2213D, or C2214B Mass Storage System	C2213D, C2214B Install option	\$4,700.	\$26.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	
C2294A	650MB Magneto-Optical Disk Drive Upgrade for C2213D, or C2214B Mass Storage System	C2213D, C2214B Install option	\$5,400.	\$20.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	
C2216T	Series 6000 Model 670SE Mass Storage System with 677MB SCSI Disk Drive. <i>Requires SCSI cable and terminator. See cable chart. Minimum Rev. PSKQ3_91</i>	Series 400 except 400dl.	\$4,800.	\$16.
C2217T	Series 6000 Model 1350SE Mass Storage System with 1.3GB SCSI Disk Drive. <i>Requires SCSI cable and terminator. See cable chart. Minimum Rev. PSKQ3_91</i>	Series 400 except 400dl Install option	\$6,200.	\$19.
C2473T	677MB Disk Upgrade for C2216T or C2217T Mass Storage System	C2216T, C2217T	\$4,300.	\$14.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	
C2474T	1.3GB Disk Upgrade for C2216T or C2217T Mass Storage System	C2216T, C2217T Install option	\$5,800.	\$17.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	
C2293T	600MB CD-ROM Upgrade for C2216T, or C2217T Mass Storage System	C2216T, C2217T Install option	\$1,250.	\$19.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	
C2292T	1.3GB DDS-Format 4mm Tape Drive Upgrade for C2216T, or C2217T Mass Storage System	C2216T, C2217T Install option	\$4,700.	\$27.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	
C2294T	650MB Magneto-Optical Disk Drive Upgrade for C2216T or C2217T Mass Storage System	C2216T, C2217T Install option	\$5,400.	\$20.
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	
C2297T	2.0GB 3.5" DDS Tape upgrade for C2216T or C2217T Mass Storage System	C2217T Install option	\$2,650.	
#0D1	Factory Installation		N/C	
#0DF	Customer Installable		\$100.	
#0DG	HP Field Installation		\$200.	



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UPGRADES, EXTERNAL STORAGE & PERIPHERALS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Disks

AADDSFLP*	1.2MB 5.25" floppy disk drive Includes cable (K2209) terminator (K2290) * <i>Must specify localization suffix - refer to CPL</i>	Series 400 except 400dl Requires SCSI cable and terminator. See cable chart	\$1,210.	\$8.
A-660E-*	660MB disk expansion module * <i>Must specify localization suffix - refer to CPL</i>	Series 400 except 400dl Requires SCSI cable and terminator. See cable chart	\$7,500.	\$96.

CD-ROM

A1999A	600MB CD-ROM Drive standalone	Series 400 except 400dl Requires SCSI cable and terminator. See cable chart <i>Must specify power cord.</i>	\$1,300.	\$21.
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Power Cord options #900 through #919 (below)

#900	United Kingdom	#903	North America, Taiwan, Korea	#917	Republic of South Africa, India
#901	Australia, New Zealand	#906	Switzerland	#918	Japan
#902	European (except Swit. Denmark)	#912	Denmark	#919	Israel

N/C

DDS-Format Tape

C1512A	1.3GB 4mm DDS Tape standalone	Series 400 except 400dl Requires SCSI cable and terminator. See cable chart	\$5,700.	\$31.
C1520B	2.0GB 4mm DAT Tape standalone includes SCSI cable (K2296), terminator (K2291) and documentation	Series 400 except 400dl. Min. Rev SR10.3.5	\$3,150.	

Magneto-Optical Disks

C1700A	20GB Magneto-Optical autochanger	Series 400 except 400dl Requires SCSI cable and terminator. See cable chart	\$37,200.	\$111.
C1701A	650MB Magneto-Optical Drive standalone	Series 400 except 400dl Requires SCSI cable and terminator. See cable chart	\$5,835.	\$24.



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Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
Tape				
A-6250-*	1/2" tape drive 1600/6250 BPI * Must specify localization suffix - refer to CPL	Series 400 except 400dl, 425e.	\$22,750.	\$166.
A-EX-*	8mm drive in a single disk expansion module * Must specify localization suffix - refer to CPL	Series 400 except 400dl, 425e	\$9,090.	\$94.
A-OBEX-*-D	8mm drive in a single disk expansion module Includes Omniback License, media and documentation * Must specify localization suffix - refer to CPL	Series 400 except 400dl, 425e	\$11,100.	
AADDESTC*	External 1/4" SCSI cartridge tape drive Includes K2290 terminator and K2209 cable * Must specify localization suffix - refer to CPL	Series 400 except 400dl, 425e	\$2,040.	
7980S	1/2" 9-Track Tape Drive Note: Must select one of the following options: 100, 133, 135, or 1A4; and one of option 200 or 800	Series 400 except 400dl Domain/OS SR10.3.5 Requires SCSI cable see cable chart	\$18,500.	

Terminals

HP 700/RX RISC X Stations

Standard Features

- RISC X Window processor base unit
- Built in DRAM and VRAM
- Monitor
- PC-style Keyboard and 3-button mouse
- Monitor cable, power cords, manuals

C2701B	HP 700/RX MI Monochrome X Station Base Unit 90,000 x stones, 4MB DRAM, .25MB VRAM Available options 1A2, AN7, W03		\$2,695.	\$4.
C2704A	HP 700/RX Ci Color X Station Base Unit 52,000 x stones, 4MB DRAM, 1MB VRAM Available options 1A2, AN7, W03		\$2,995.	\$4.
C2709A	HP 700/RX Ca High Resolution Color X Station Base Unit 86,000 x stones, 4MB DRAM, 2MB VRAM Available options 1A2, AN7, W03		\$3,895.	\$4.
C2702B	HP 700/RX 19Mi 19" Monochrome X Station 19" 1280x1024 display, 90,000 x stones, 4MB DRAM, .25MB VRAM Available options 1A2, AN7, W03		\$3,295.	\$14.



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Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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Terminals

C2705A	HP 700/RX 14Ci 14" Color X Station <i>14" 1024x768 display, 52,000 x stones, 4MB DRAM, 1MB VRAM</i> Available options 1A2, AN7, W03		\$3,495.	\$7.
C2706A	HP 700/RX 16Ci 16" Color X Station <i>16" 1024x768 75Hz display, 52,000 x stones, 4MB DRAM, 1MB VRAM</i> Available options 1A2, AN7, W03		\$4,495.	\$12.
C2710A	HP 700/RX 16Ca 16" Color X Station <i>16" 1024x768 75Hz display, 86,000 x stones, 4MB DRAM, 1MB VRAM</i> Available options 1A2, AN7, W03		\$5,195.	\$12.
C2711A	HP 700/RX Model 19Ca 19" Color X Station <i>19" 1280x1024 72Hz display, 86,000 x stones, 4MB DRAM, 2MB VRAM</i> Available options 1A2, AN7, W03		\$5,995.	\$28.
C2717A	HP 700/RX Server Tape-HP CISC Software on 1/4" cartridge tape.	Minimum Rev. SR10.2	\$250.	

X STATION FACTORY INTEGRATED OPTIONS

#1A2	Delete PC-style keyboard	-\$60.
#AN7	Delete 2MB SIMM	-\$299.
#W03	Convert one year return to HP warranty to 90 day on-site	N/C

Terminal Localization

(MUST ORDER WITH EVERY TERMINAL)

Localized options #ABA through #AB1 (below)

N/C

#ABA	U.S. English	#ABK	ICON	#ABW	Belgian Dutch
#ABC	French Canadian	#ABM	Latin Spanish	#ABX	Finnish
#ABD	German	#ABN	Norwegian	#ABY	Danish
#ABE	European	#ABP	Swiss German	#ABZ	Italian
#ABF	European French	#ABQ	Swiss French	#AB0	Taiwan
#ABH	Dutch	#ABS	Swedish	#AB1	Korean
#ABJ	Katakana	#ABU	UK		



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Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
Networking				
28641B	10Base2 ThinLAN MAU		\$239.	N/C
28683A	Fiber Optic Transceiver		\$499.	N/C
28685B	10BaseT EtherTwist MAU		\$159.	\$2.
30241A	10Base5 ThickLAN MAU		\$400.	\$6.
General I/O				
K2292	Convert 1 to 3 RS-232C ports Attaches to workstation serial port.	Series 400 except 400dl and 425e	\$300.	
A-NET-ATR	Apollo Token Ring Card	Series 400 except 400dl and 425e	\$1,365.	\$10.
A-NET-ITR	IBM Token Ring Card	Series 400 except 400dl and 425e	\$1,365.	\$10.
SPTL-2003NA	Spaceball, Input device which controls 3-D screen images in X, Y, and Z axes through actual hand movement. Utilizes RS232 Serial interface. North America version	Series 400	\$1,695.	
SPTL-2003IL	Spaceball, Input device which controls 3-D screen images in X, Y, and Z axes through actual hand movement. Utilizes RS232 Serial interface. International America version	Series 400	\$1,795.	
ISA				
A-ADD-PCC	PC Coprocessor	Series 400 except 400dl and 425e	\$2,010.	\$24.
KIT-CENT10C	Parallel interface kit for AT-Bus Includes cable, AT-Bus controller board with software driver on cartridge tape.	Min. Rev SR10.1	\$1,665.	
KIT-CENT10H	Parallel interface kit for AT-Bus Includes cable, AT-Bus controller board with software driver on 5-1/4" floppy	Min. Rev SR10.1	\$1,665.	
SCAT10*	Intelligent Communications Controller Provides 2 serial, high-speed ports for SNA and X.25 Communications. * Cable and media choice controlled by suffix - refer to CPL.	Min. Rev. SR10	\$2,520.	
LASER PRINTERS				
C2007A	LaserJet IIP Plus printer 4ppm with PCL4, Centronics parallel I/O only.	Requires cable see cable chart A1906A	\$1,595.	\$10.
33481A	LaserJet IIIP printer 4ppm, RS232 Centronics interfaces.	Requires cable see cable chart A1904A for RS232 A1906A for Centronics	\$1,595.	\$10.



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UPGRADES, EXTERNAL STORAGE & PERIPHERALS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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LASER PRINTERS

33459A	LaserJet IID printer 8ppm with dual tray duplex, RS232/422, Centronics interfaces.	Requires cable see cable chart A1904A for RS232 A1906A for Centronics	\$3,595.	\$23.
33491A	LaserJet IIISi printer 17ppm with dual 500-sheet, RS232/422, Centronics interfaces.	Requires cable see cable chart A1904A for RS232 A1906A for Centronics	\$5,495.	\$47.
33449A	HP LaserJet III printer with RS232-C and Centronics parallel interfaces.	Requires cable see cable chart A1904A for RS232 A1906A for Centronics	\$2,395.	\$23.

COLOR INK JET PRINTERS

C1602A	HP PaintJet XL color graphics printer. User's guide, set up guide, supplies and power cord included. <i>Must specify option #1AX</i>	Requires cable see cable chart	\$2,595.	\$6.
#1AX	HP PaintJet XL color graphics printer with RS232-C and Centronics parallel interfaces.	Series 400 except 400dl A1904A for RS232 A1906A for Centronics	N/C	

PLOTTERS

C1625A	HP 7600 Series Model 250 , monochrome electrostatic plotter. <i>Must specify localization option. Centronics only</i>	Requires cable see cable chart	\$16,900.	\$85.
C1627A	HP 7600 Series Model 255 , monochrome electrostatic plotter. <i>Must specify localization option. Centronics only</i>	Requires cable see cable chart	\$26,900.	\$107.
C1620A	HP 7600 Series Model 355 , color electrostatic plotter. <i>Must specify localization option. Centronics only</i>	Requires cable see cable chart	\$49,900.	\$214.
7595C	HP DraftMaster SX Plus plotter High performance A through E-size, 8-pen plotter. Single sheet feeder. RS232-C interface standard.	Requires cable see cable chart	\$7,495.	\$24.
7596C	HP DraftMaster RX Plus plotter High performance A through E-size, 8-pen plotter. Roll or sheet feed. RS232-C interface standard.	Requires cable see cable chart	\$9,495.	\$24.
7599B	HP DraftMaster MX Plus plotter High performance A through E-size, 8-pen plotter. Roll or sheet feed. Four RS232-C ports and 20-megabyte hard disk standard.	Requires cable see cable chart	\$10,995.	\$28.



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DOMAIN/OS HP Apollo 9000 Series 400

CABLES

CAUTION: SCSI cables and terminators for connecting external peripherals to Series 400 computers **must** be ordered separately. Failure to order these parts as needed will result in delivery of unusable systems.

Because of the variety of connectors used with SCSI devices throughout the industry, and because we cannot have prior knowledge of cable lengths required for individual configurations at each installation, neither Hewlett-Packard Series 400 workstations nor (most) Hewlett-Packard peripherals include SCSI cables.

Cables are available from Hewlett-Packard in all necessary combinations of connectors and in several lengths. The peripherals they connect and the specific cable types are detailed in Table 1, see next page.

Connectors

There are currently 4 SCSI connector types recommended for use with Domain/OS Series 400 workstations and the peripherals listed in this guide.

1. The SCSI connector recommended for attachment to all Series 400 workstations shipped after November 1990 is a High Density Thumb Screw connector.
2. Before November 1990, all Series 400 workstations used a High Density Squeeze Lock connector.
3. Hewlett-Packard supplied SCSI devices supported with Domain/OS are attached through the use of a Low Density Thumb Screw connector.
4. Other Hewlett-Packard SCSI devices supported by both Domain/OS and HP-UX use a Low Density Bail Lock connector.

The cable required depends upon the two devices being connected:

The first external device will be connected to the SPU, so one connector of the cable should be the High Density type (either Thumb Screw or Squeeze Lock, depending on the age of the SPU).

The other end of the cable to the first external device will be either the Low Density Bail Lock or the Low Density Thumb Screw type, depending on the device's connector.

The connectors used on subsequent SCSI devices must be selected according to the requirements of the two devices being connected. See Table 1 for details.

Cable Length

Choices of length are available for each cable type. Remember that the definition of single-ended SCSI limits the total length of SCSI cables to 6 meters. This includes the length of cabling internal to each device. Since Series 400 workstations use 1.4 meters of internal cabling, this leaves 4.6 meters for the remaining chain of connecting and internal cables.

Terminators

The SCSI bus must always be terminated. The last device on the bus must always be terminated as described below:

If no external SCSI devices are connected to the SPU, the SCSI port must still be terminated. The Models 400t, 425t, and 425e all use a design with internal termination so no external terminator is required. The Models 400s, 425s, and 433s all use an external terminator (K2289) which is shipped with the SPU.

When connecting one or more external devices to the SPU, the last device in the daisy-chain must be terminated. The proper terminator for the external device connector type must be used.



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HP Apollo 9000 Series 400

CABLES

Selecting SCSI Cables and Terminators

Table 1 details the SCSI cables and terminators used to connect and terminate the listed devices when used with the Series 400.

Device support changes more often than this manual can be updated. Please check with your local HP Sales Office for a current support matrix. Remember that SCSI cables are not shipped with the Series 400 workstations or with most HP SCSI peripheral devices (check prerequisites for specific devices). It is recommended to order your cables through your HP Sales Representative at the time of purchase of your workstation. For added convenience cables may be ordered separately from your local HP Sales Office or from the *HP Apollo Direct Workstation Catalog*. For orders in the U.S. call 1-800-752-0900 to be referred to your local sales office.

Helpful Hints for SCSI

1. Only Hewlett-Packard approved SCSI cables should be used with Series 400 workstations and any connected SCSI devices. Use of non-HP cables may result in significant problems with system operation.
2. Always use the shortest possible cable(s) for your configuration.
3. Up to seven devices may be connected at one time in a single SCSI chain. The workstation counts as one device. If the Series 400 workstation has internal SCSI devices, you must count them as additional SCSI devices in the total.

Table 1
SCSI Cables and Terminators for Domain/OS Series 400 Workstations

Connecting		TO
FROM	Domain/OS Devices: A-660E, AADDSFLP, AADDESTC, A-OBEX-, A-EX-	HP-UX Devices: A1999A, C1512A, C1520B, C1700A, C1701A, C2213D, C2214B, C2216T, C2217T, 7980S
Models 4XXe, t, s with Thumb Screw Connectors	K2294 .9 meter K2295 1.5 meter	K2296 .9 meter K2297 1.5 meter
Models 400t, s with Squeeze Lock Connectors	K2288 .9 meter K2287 1.5 meter	K2286 .9 meter K2285 1.5 meter
Domain/OS Devices: A-660E, AADDSFLP, AADDESTC, A-OBEX-, A-EX-	K2207 .5 meter K2208 1.0 meter K2209 1.5 meter K2210 2.2 meter K2211 3.0 meters	K2284 .9 meter K2283 1.5 meter
HP-UX Devices: A1999A, C1512A, C1520B, C1700A, C1701A, C2213D, C2214B, C2216T, C2217T, 7980S	K2284 .9 meter K2283 1.5 meter	92222A .5 meter 92222B 1.0 meter 92222C 2.0 meter
Include this SCSI terminator when ordering cabling		
Terminator	K2290	K2291
Connector	Low Density Thumb Screw	Low Density Bail Lock

DOMAIN/OS
HP Apollo 9000 Series 400

CABLES

RS-232C Cables

CAUTION: Cables for connecting hardcopy and datacomm peripherals to series 400 workstations **must** be ordered separately. Failure to order these parts as needed will result in delivery of unusable peripherals.

Numerous RS-232C connector types exist, so connecting cables must be selected and ordered depending on the requirements of the devices to connect. Table 2 will provide a guide for selection of the proper cables.

Table 2
RS-232C Cables for Domain/OS Series 400 Workstations

Connecting FROM			TO	
			HP LaserJet: 33449A, 33459A 33471A, 33481A, 33491A HP PaintJet XL: C1602A #1AX HP Pen Plotter: 7440 #001, 7475 #001 HP Draftmaster: 7595B, 7596B, 7599A	Modems: K1498
		Device Connector	DTE-25F	DCE-25F
Series or Model #	Description	Host Connector	Cable	Cable
Series 400 SPU's	Models 4xxt, 4xxs without K2292	DTE-25F	40242G	17255D
	Models 425e or Model 4xxt, 4xxs with K2292	DTE-9M	24542G	24542H

Centronics Parallel Interface

The primary Centronics parallel interface cable is cable model # 92284A, which is a 36-pin M/25-pin M cable, 2.13m (6.6ft) long. This cable can be extended by an additional 3.0m (9.9 ft) by using cable model #17355D (25-pin F/25-pin M straight-through cable).



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HP Apollo 9000 Series 400

Cable Products and Prices

SCSI Cables and Terminators

K2290	Low Density Thumb Screw Terminator	\$42.
K2291	Low Density Bail Lock Terminator	\$40.
K2283	1.5m (5 ft.) Low Density Bail Lock to Low Density Thumb Screw cable	\$45.
K2284	.9 m (3 ft.) Low Density Bail Lock to Low Density Thumb Screw cable	\$40.
K2285	1.5m (5 ft.) Low Density Bail Lock to High Density Squeeze Lock cable	\$82.
K2286	.9 m (3 ft.) Low Density Bail Lock to High Density Squeeze Lock cable	\$79.
K2287	1.5 m (5 ft.) Low Density Thumb Screw to High Density Squeeze Lock cable	\$89.
K2288	.9 m (3 ft.) Low Density Thumb Screw to High Density Squeeze Lock cable	\$85.
K2294	.9 m (3 ft.) Low Density Thumb Screw to High Density Thumb Screw cable	\$89.
K2295	1.5 m (5 ft.) Low Density Thumb Screw to High Density Thumb Screw cable	\$94.
K2296	.9 m (3 ft.) Low Density Bail Lock to High Density Thumb Screw cable	\$83.
K2297	1.5 m (3 ft.) Low Density Bail Lock to High Density Thumb Screw cable	\$88.
K2207	.4 m (1.3 ft.) Low Density Thumb Screw (both ends) cable	\$49.
K2208	2.4 m (8 ft.) Low Density Thumb Screw (both ends) cable	\$62.
K2209	1.5 m (5 ft.) Low Density Thumb Screw (both ends) cable	\$55.
K2210	.9 m (3 ft.) Low Density Thumb Screw (both ends) cable	\$52.
K2211	3 m (10 ft.) Low Density Thumb Screw (both ends) cable	\$66.
92222A	.5 m (1.7 ft.) Low Density Bail Lock (both ends) cable	\$49.
92222B	1 m (3.3 ft.) Low Density Bail Lock (both ends) cable	\$55.
92222C	2 m (6.7 ft.) Low Density Bail Lock (both ends) cable	\$59.

RS-232C Cables

17255D	1.2 m (4 ft.) 25-pin M/25-pin F Cable	\$44.
40242G	5 m (16.5 ft.) 25-pin M/25-pin M Cable	\$77.
24542G	3 m Serial RS232-C cable with female connector	\$60.
24542H	3 m Serial RS232-C cable with male connector	\$60.

Centronics Parallel Cables

92284A	2.1 m (6.6 ft.) 36-pin M/25-pin M Cable	\$39.
17355D	3 m (9.9 ft.) 25-pin F/25-pin M Cable	\$66.



DOMAIN/OS HP Apollo 9000 Series 400

SOFTWARE

Definitions:

I. Node License (or License):

A license to run the software on a single specific node. *Each node, including diskless nodes, must be licensed to use the software.* Discounts on Node Licenses are granted according to the customer's appropriate discount schedule.

A. Development (Node) License:

A Node License required for software used to develop applications. Only nodes used to develop applications with the software are required to purchase this license.

B. Runtime (Node) License:

A Node License required to run applications created by Development Licensed software. These licenses are offered at a lower price than the Development License. Some Development Licensed software does not require a Runtime License and, in these cases, no license or fee is required for nodes running the resultant application.

II. Corporate License:

Corporate Licenses provide a discount based on the quantity ordered, thus reducing the cost of a number of Node Licenses (including Development and Runtime Licenses). Quantities are determined without any network or geographical restrictions. Since no further discounting is permitted (i.e. *customer discount schedules do not apply*), it might be more economical for customers with large discount schedules to order the required number of Node Licenses rather than take the discount offered on the quantity Corporate License discount schedule.

III. Gateway License:

A license for a communications product which runs on a single node but provides a service for users running on other systems. Although multiple users may benefit from the services provided, only the node running the software needs to be licensed.

IV. Bundled Software Programs

A license to use the operating system is granted with every node purchased. The Licensee has the choice of either Aegis (SR9.7) or Domain/IX (SR9.7) or Domain/OS (SR10: Apollo's single operating system that includes the choice of three environments: System V.3 and later, BSD 4.3, and Aegis). The licensee must purchase the initial distribution media and documentation for the operating system (LF450 / LF300 / LF020). One media set can be used for multiple nodes for these bundled software programs however additional media and/or documentation can be purchased separately.

Media and Documentation:

Corporate Licenses grant the "right to use" the software, however separate media (Cartridge Tape, 8" Floppy, 5 1/4" Floppy, or Mag. Tape) must be ordered to obtain the software. Since the software can be copied to all licensed nodes, only one copy of the media is required to obtain the original software. Product Documentation must be ordered separately (see the *Apollo Documentation and Software Replacement Media Catalog* [5953-2460Z]).

Each copy of the **Node License** (including Runtime and Development versions) or **Gateway License** is delivered with media and documentation. The specific media type (Cartridge Tape, 8" Floppy, 5 1/4" Floppy, or Mag. Tape) must be specified.



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DOMAIN/OS

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SOFTWARE MODEL NUMBER DEFINITION

Example: LA010AAA

L X XX X X X X

Media Type:

A = 8" Floppy
B = 5.25" Floppy
C = Mag Tape
D = Cartridge
E = IIP Cartridge
0 = Not Applicable

Architecture:

A = Motorola
B = PRISM
C = Intel
D = Spare
E = VAX
F = MIPS (DEC)
G = NLS Domain
H = NLS Domain/SUN
J = NLS Domain/VMS
K = NLS Domain/SUN/VMS
L = Motorola/Prism
0 = Not Applicable

O/S Release:

A = SR9.7
B = SR10
C = SR9/10
D = SunOS 3.X
E = SunOS 4.X
F = VAX/ULTRIX
G = VAX/VMS
H = HP-UX
J = DOS
K = Not Apollo
0 = Not Applicable

Modifier:

A = Runtime
B = Development
C = Source
D = Source & Binary Re-Marketing Rights
E = Runtime Source
F = Development Source Duplication Rights
G = R/T Source Duplication Rights
H = Reseller Royalty
J = 100 Additional Licenses
K = 500 Additional Licenses
M = 2000 Additional Licenses
N = 5000 Additional Licenses
P = 10,000 Additional Licenses
Q = 20,000 Additional Licenses
0 = Not Applicable

Product Code:

Product Type:

A = License, Media & Doc.
B = Corporate License
D = Media
E = BSU
F = Domain/OS & Product Support Kit
H = RTU

Family: Software

OPERATING SYSTEM

45 = Domain OS

GRAPHICS

24 = GMR3D
51 = Domain/PHIGS

TECHNICAL OFFICE APPLICATIONS

32 = Knowledge Broker Reader
33 = Knowledge Broker Publisher

DATA MANAGEMENT

19 = D3M

HARDWARE SUPPORT APPLICATIONS

63 = TRANS
64 = VERS V8

DEVELOPMENT TOOLS

01 = Domain/ADA
07 = Domain/C
12 = Domain/C++ Translator
13 = Domain/C++
15 = Domain/DPAK
18 = DSEE
21 = FORTRAN 77
46 = PASCAL

SYSTEM ADMINISTRATION

75 = Password ETC

EMULATOR

74 = 5080

GATEWAY NODE LICENSE

67 = X.25
A0 = SNA Facility
A1 = SNA LU6.2
A2 = SNA 3270

SINGLE NODE LICENSE

39 = NFS

NETWORK COMPUTING SYSTEM

38 = NCK

NETWORK LICENSING

35 = LSLock
40 = NIDL
42 = NLS



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*Workstation
Systems Division*

DOMAIN/OS

HP Apollo 9000 Series 400

Operating System

A license to use these operating systems (node license) is granted with every node purchased. The licensee must purchase the initial distribution media and documentation for the operating system. Only one copy of the media is needed for multiple node purchases since the software can be copied to licensed nodes.

Product/Options	Release	Description	U.S. List
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OPERATING SYSTEMS

Domain/OS

A single operating system that provides users with three operating environments – UNIX System V Release 3, BSD 4.3, and AEGIS. The X-Window System environment, along with the APOLLO Display Manager, is also included. The Domain/Distributed Debugging Environment (DDE), a powerful, multi-language debugging tool for large multi-process, distributed applications is bundled with Domain/OS.

LF450

BAC,BAD	(SR10)	Media & Documentation	\$595
BBC,BBD	(PRISM)		\$595

Documentation for Domain/OS includes user and system administrator documentation only. See the Apollo Documentation Catalogue for the *Programmer's Documentation Set*.

LD450	Replacement Media	Qty: 1-5	Qty: 6-10	Qty: 11-20	21 plus
BAA, BAB	(SR10)	\$752	\$677	\$640	\$565
BAC, BAD	(SR10)	\$166	\$150	\$141	\$125
BBC,BBD	(PRISM)	\$166	N/A	N/A	N/A

LE450

BAA,BAB,BAC,BAD	Domain/OS BSU (SR10)	\$2,525
BBC,BBD	(PRISM)	\$2,525

LH45

Domain/OS RTU	\$650
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Domain/OS PRODUCT SUPPORT KIT

LFZ70BAD	PSK8 of Domain/OS SR10.3 on QIC format tape	\$98.
LFC50BAD	PSKQ3_91 of Domain/OS SR10.3 on QIC format tape	\$98.
LFC50BBD	PSKQ3_91 of Domain/OS PRISM on QIC format tape	\$98.



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DOMAIN/OS

HP Apollo 9000 Series 400

Development Tools

Product/Options	Release	Description	U.S. List			
Domain/Ada						
The Domain/Ada Development System includes a validated compiler, linker, source-level debugger, program lib management tools and runtime system based on the Verdix Ada Development System. Combines all the features of Ada Apollo-specific enhancements, including integration with DSEE and DPAK. Complies fully with the ANSI-MIL-STD-1815A specifications and is validated by the Ada Joint Program Office.						
LA010						
BAC,BAD	(SR10)	Development License, Media & Documentation				\$6,060
LB0100A0	2-9 nodes	Development Corporate License - mc680x0				\$3,900
	10-24 nodes					\$3,600
	25-49 nodes					\$3,300
	50 plus nodes					\$3,000
LD010	Replacment Media	Qty: 1-5	Qty: 6-10	Qty: 11-20	21 plus	
B0C	(SR10)	\$78	\$70	\$66	\$50	
B0D		\$98	\$88	\$83	\$63	
LE010						
BAC,BAD	SR10	Media & Documentation				\$2,425
LH01	Domain/Ada,RTU					\$600

Domain/C

Apollo's C is a compatible superset of the de facto standard defined by *The C Programming Language* by Kernighan and Ritchie, including features of the ANSI C standard. The Motorola version contains a Motorola to PRISM Cross compiler. The PRISM version contains a PRISM to Motorola Cross compiler.

LA070						
BAA,BAB,BAC,BAD	(SR10)	Development License, Media & Documentation				\$1,010
BBC, BBD	(PRISM)					\$2,525
LB0700A0	2-9 nodes	Development Corporate License mc680x0				\$700
	10-24 nodes					\$500
	25-49 nodes					\$350
	50-99 nodes					\$260
	100 plus nodes					\$170
LB0700B0	2-9 nodes	Development Corporate License - PRISM				\$1,625
	10-24 nodes					\$1,250
	25-49 nodes					\$875
	50-99 nodes					\$650
	100 plus nodes					\$425
LD070	Replacement Media	Qty: 1-5	Qty: 6-10	Qty: 11-20	21 plus	
B0A, B0B	(SR10)	\$16	\$14	\$13	\$12	
B0C		\$78	\$70	\$66	\$50	
B0D		\$98	\$88	\$83	\$74	
BBC	(PRISM)	\$78	\$70	\$66	\$50	
BBD		\$98	\$88	\$83	\$74	
LE070	Domain/C BSU					
BAA,BAB,BAC,BAD	(SR10)					\$505
BBC,BBD	(PRISM)					\$505
LH07	Domain/C RTU					\$110



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DOMAIN/OS

HP Apollo 9000 Series 400

Development Tools Cont'd

Product/Options	Release	Description	U.S. List			
Domain/C++						
C++ is the object-oriented language of choice for UNIX applications; it is an extension to the C language that is geared towards increasing programmer productivity. Tightly integrated with DSEE, DDE, and DPAK, this package includes both C++ Translator and the Domain/C compiler. The Motorola version contains a Motorola to PRISM C Cross compiler. The PRISM version contains a PRISM to Motorola C Cross compiler.						
LA120 BAB,BAC,BAD BBC,BBD	(SR10) (PRISM)	C++ V2.0 Translator License, Media & Documentation				\$1,060 \$1,060
LB1200A0	2-9 nodes 10 plus nodes	C++ V2.0 Translator Corporate License for MOTOROLA-based stations				\$600 \$475
LB1200B0	2-9 nodes 10 plus nodes	C++ V2.0 Translator Corporate License for PRISM-based stations				\$600 \$475
LD120 BOB BOC BOD BBC BBD	C++ V2.0 Translator Replacement Media (SR10) (PRISM)	Qty: 1-5 \$30 \$78 \$98 \$78 \$98	Qty: 6-10 \$23 \$70 \$88 \$70 \$88	Qty: 11-20 \$20 \$66 \$83 \$66 \$83	21 plus \$17 \$50 \$74 \$50 \$74	
LE120 BAB,BAC,BAD BBC,BBD	Domain/C++ Translator BSU (SR10) (PRISM)					242 242
LH12	Domain/C++ Translator RTU					60
Domain/C++ Translator: Same as above without the Domain/C compiler.						
LA130 BAB,BAC,BAD BBC,BBD	(SR10) (PRISM)	C++ V2.0 License, Media & Documentation				\$1,615 \$2,830
LB1300A0	2-9 nodes 10-24 nodes 25-49 nodes 50-99 nodes 100 plus nodes	C++ V2.0 Corporate License -mc680x0				\$1,000 \$900 \$800 \$700 \$625
LB1300B0	2-9 nodes 10-24 nodes 25-49 nodes 50-99 nodes 100 plus nodes	C++ V2.0 Corporate License-PRISM				\$1,750 \$1,400 \$1,000 \$800 \$700
LD130 BOB BOC BOD BBC BBD	C++ V2.0 Replacement Media (SR10) (PRISM)	Qty: 1-5 \$46 \$126 \$146 \$126 \$146	Qty: 6-10 \$37 \$114 \$132 \$114 \$132	Qty: 11-20 \$33 \$107 \$124 \$107 \$124	21 plus \$29 \$95 \$110 \$95 \$110	
LE130 BAB,BAC,BAD BBC,BBD	Domain/C++ BSU (SR10) (PRISM)					405 405
LH13	Domain/C++ RTU					100



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HP Apollo 9000 Series 400

Development Tools Cont'd

Product/Options	Release	Description	U.S. List
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Domain Performance Analysis Kit (DPAK)

DPAK consists of three tools for performance analysis: DPAT (Domain Performance Analysis Tool), which monitors program execution and reports on percentage of time spent in a procedure; HPC, which produces a histogram of the program counter during execution, enabling the user to evaluate compute-bound portions of code; and DSPST, which displays process statistics in a graphics format.

LA150						
BAA,BAB,BAD	(SR10)	Development License, Media & Documentation				\$255
BBD	(PRISM)					\$255
LB150000	2-9 nodes	Development Corporate License				\$125
	10-24 nodes					\$90
	25-49 nodes					\$60
	50-99 nodes					\$30
	100 plus nodes					\$10
LD150	Replacement Media	Qty: 1-5	Qty: 6-10	Qty: 11-20	21 plus	
B0A, B0B	(SR10)	\$42	\$38	\$36	\$31	
B0D		\$126	\$114	\$107	\$95	
BBD		\$126	\$114	\$107	\$95	
LE150	Domain/DPAK BSU					
BAA,BAB,BAD	(SR10)					101
BBD	(PRISM)					101
LH15	Domain/DPAK RTU					25

Domain Software Engineering Environment (DSEE)

A support environment for managing large-scale software development projects involving teams of managers, engineers and technical writers. Software developed under DSEE can run on a variety of target systems including: workstations, PCs, minicomputers, mainframes and embedded microprocessor systems.

LA180						
BAA,BAB,BAC,BAD	(SR10)					\$2,020
BBC, BBD	(PRISM)					\$2,020
LB180000	2-9 nodes	Development Corporate License				\$1,000
	10-24 nodes					\$800
	25-49 nodes					\$600
	50-99 nodes					\$400
	100 plus nodes					\$300
LD180	Replacement Media	Qty: 1-5	Qty: 6-10	Qty: 11-20	21 plus	
B0A, B0B	(SR10)	\$51	\$46	\$43	\$38	
B0C		\$78	\$70	\$66	\$50	
B0D		\$98	\$88	\$83	\$74	
BBC		\$78	\$70	\$66	\$50	
BBD		\$98	\$88	\$83	\$74	
LE180	Domain/DSEE BSU					
BAA,BAB,BAC,BAD	(SR10)					810
BBC,BBD	(PRISM)					810
LH18	Domain/DSEE RTU					200



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DOMAIN/OS

HP Apollo 9000 Series 400

Development Tools Cont'd

Product/Options	Release	Description	U.S. List			
Fortran 77 A fully compliant ANSI X3. 9-1987 compiler commonly used for compute-intensive applications. The Motorola version contains a Motorola to PRISM cross compiler. The PRISM version contains a PRISM to Motorola Cross compiler.						
LA210						
BAA,BAB,BAC,BAD	(SR10)	Development License, Media & Documentation				\$1,010
BBC,BBD	(PRISM)					\$2,525
LB2100A0	2-9 nodes	Development Corporate License				\$700
	10-24 nodes	MC680x0				\$500
	25-49 nodes					\$350
	50-99 nodes					\$260
	100 plus nodes					\$170
LB2100B0	2-9 nodes	Development Corporate License - PRISM				\$1,625
	10-24 nodes					\$1,250
	25-49 nodes					\$875
	50-99 nodes					\$650
	100 plus nodes					\$425
LD210	Replacement Media		Qty: 1-5	Qty: 6-10	Qty: 11-20	21 plus
B0A, B0B	(SR10)		\$16	\$14	\$13	\$12
B0C			\$78	\$70	\$66	\$50
B0D			\$98	\$88	\$83	\$74
BBC	(PRISM)		\$78	\$70	\$66	\$50
BBD			\$98	\$88	\$83	\$74
LE210	FORTTRAN BSU					
BAA,BAB,BAC,BAD	(SR10)					505
BBC,BBD	(PRISM)					505
LH21	FORTTRAN RTU					110
Pascal A superset of the ISO standard, Pascal is a procedure-oriented language used for structured programming. Apollo extensions increase the power of this language for systems programming. The Motorola version contains a Motorola to PRISM Cross compiler. The PRISM version contains a PRISM to Motorola Cross compiler.						
LA460						
BAA,BAB,BAC,BAD	(SR10)	Development License, Media & Documentation				\$1,010
BBC, BBD	(PRISM)					\$2,525
LB4600A0	2-9 nodes	Development Corporate License				\$700
	10-24 nodes	MC680x0				\$500
	25-49 nodes					\$350
	50-99 nodes					\$260
	100 plus nodes					\$170
LB4600B0	2-9 nodes	Development Corporate License - PRISM				\$1,625
	10-24 nodes					\$1,250
	25-49 nodes					\$875
	50-99 nodes					\$650
	100 plus nodes					\$425
LD460	Replacement Media		Qty: 1-5	Qty: 6-10	Qty: 11-20	21 plus
B0A, B0B	(SR10)		\$16	\$14	\$13	\$12
B0C			\$78	\$70	\$66	\$50
B0D			\$98	\$88	\$83	\$74
BBC	(PRISM)		\$78	\$70	\$66	\$50
BBD			\$98	\$88	\$83	\$74
LE460	PASCAL BSU					
BAA,BAB,BAC,BAD	(SR10)					505
BBC,BBD	(PRISM)					505
LH46	PASCAL RTU					110



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HP Apollo 9000 Series 400

Development Tools Cont'd

Product/Options	Release	Description	U.S. List
HP SoftBench			
SoftBench is a software development environment for the edit, compile, debug phase of the software development lifecycle. There are five tools integrated on a tool integration platform that make up SoftBench. All of the tools have an OSF/Motif look and feel and are based upon the X window system. SoftBench is available on both Domain/OS and HP-UX.			
B1851A		HP SoftBench for Apollo License-to-Use - 68K	
Opt. OAN		1 Seat	\$1,500
OA9		10 Seats	\$12,000
OAG		25 Seats	\$26,250
OAA		50 Seats	\$45,000
B1852A		68K Media and Manuals	\$500
B1853A		License to Use - DN10000	
Opt. OAN		1 Seat	\$1,500
OA9		10 Seats	\$12,000
OAG		25 Seats	\$26,250
OAA		50 Seats	\$45,000
B1854A		DN10000 Media and Manuals	\$500
B1859A		Documentation Kit	\$350



HP Encapsulator for Apollo

Encapsulator for Apollo is a product that allows users or third parties to extend and customize the SoftBench environment by integrating tools.

B1855A	HP Encapsulator for Apollo License-to-Use - 68K	\$750
B1856A	68K Media and Manuals	\$250
B1857A	License to Use - DN10000	\$750
B1858A	DN10000 Media and Manuals	\$250



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DOMAIN/OS HP Apollo 9000 Series 400

Graphics

Graphics packages are divided into Development and Runtime versions. Development versions are for the application developer and are licensed on a per node bases. Runtime licenses (the license to run the resultant application) are included free of charge for the following packages: GMR3D, Domain/PHIGS, and HP-PHIGS require a Runtime license which must be purchased for every node running applications based on these libraries. In addition media for these Runtime environments must be ordered (only one copy is needed for multiple licensed nodes). No Runtime license or media is required for GPR based applications.

Corporate Licenses are a means for reducing the costs of Development licenses (all packages) and Runtime licenses that have a fee (GKS and HP-PHIGS). The corporate license grants the right to use the software on a specific node, it comes with no media or documentation. Thus media and documentation are ordered separately. Only one copy of the media is required since it can be copied to all the nodes for which a corporate license has been purchased.

Product/Options	Release	Description	U.S. List			
GMR3D						
GMR3D (Graphics Metafile Resource - 3D) is a world coordinate, 3D graphics package providing for the storage, editing, modeling and viewing of 3D primitives and attributes. GMR3D provides high performance with advanced lighting, shading and rendering functions. The package provides two interfaces: retained hierarchical segments and application maintained display list buffers for immediate display.						
LA24B						
BAA, BAB, BAC, BAD	(SR10)	Development License, Media & Documentation				\$2,020
BBC, BBD	(PRISM)					\$2,020
LB24B000	2-9 nodes	Development Corporate License				\$1,300
	10-24 nodes					\$1,200
	25-49 nodes					\$1,100
	50-99 nodes					\$1,000
	100 plus nodes					\$1,000
LD24A	Runtime Replacement Media	Qty: 1-5	Qty: 6-10	Qty: 11-20	21 plus	
B0A, B0B	(SR10)	\$51	\$46	\$43	\$39	
B0C		\$81	\$73	\$69	\$61	
B0D		\$101	\$91	\$86	\$76	
BBC	(PRISM)	\$81	\$73	\$69	\$61	
BBD		\$101	\$91	\$86	\$76	
LD24B	Replacement Media	Qty: 1-5	Qty: 6-10	Qty: 11-20	21 plus	
B0A, B0B	(SR10)	\$81	\$73	\$69	\$61	
B0C		\$111	\$100	\$95	\$84	
B0D		\$131	\$118	\$112	\$99	
BBC	(PRISM)	\$111	\$100	\$95	\$84	
BBD		\$131	\$118	\$112	\$99	
LE24A		GMR3 Runtime Kit BSU				
AAA, AAB, AAC, AAD	(SR9.7)					405
BAA, BAB, BAC, BAD	(SR10)					405
BBC, BBD	(PRISM)					405
LE24B		GMR3D Development BSU				
AAA, AAB, AAC, AAD	(SR9.7)					810
BAA, BAB, BAC, BAD	(SR10)					810
BBC, BBD	(PRISM)					810
LH24A		GMR3 Runtime Kit RTU				50
LH24B		GMR3D Development RTU				200



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Workstation
Systems Division

DOMAIN/OS

HP Apollo 9000 Series 400

Graphics Cont'd

Product/Options	Release	Description	U.S. List		
Domain/PHIGS(PRISM) and HP-PHIGS (SR10)					
Domain/PHIGS (Programmers Hierarchical Interactive Graphics System) an ANSI/ISO standard for 3D graphics. Domain/PHIGS is a native implementation of the standard with added extensions (posting to views, CGM output, etc.) GMR3D's advanced lighting and shading functions can be used with PHIGS data structures only available on PRISM platforms. HP-PHIGS is the native implementation of the PHIGS & proposed standard, which includes advanced 3D functionality such as lighting, shading, curves and surfaces. Currently only available on SR10, Motorola platforms..					
LA51A BAA,BAB,BAC,BAD BBC, BBD	(SR10 HP-PHIGS) (PRISMDomain/PHIGS)	Runtime License, Media & Documentation	\$260		
LA51B BAA,BAB,BAC,BAD BBC, BBD	(SR10 HP-PHIGS) (PRISMDomain/PHIGS)	Development License, Media & Documentation	\$3,030 \$3,030		
LB51A000	2-9 nodes 10-24 nodes 25-49 nodes	Runtime Corporate License	\$150 \$140 \$130		
LB51B000	2-9 nodes 10-24 nodes 25-49 nodes 50-99 nodes 100 plus nodes	Development Corporate License	\$1,950 \$1,800 \$1,650 \$1,500 \$1,200		
LD51A B0A, B0B B0C B0D BBC BBD	Runtime Replacement Media (SR10 HP-PHIGS) (PRISM Domain/PHIGS)	Qty: 1-5 \$51 \$81 \$101 \$81 \$101	Qty: 6-10 \$46 \$73 \$91 \$73 \$91	Qty: 11-20 \$43 \$69 \$86 \$69 \$86	21 plus \$39 \$61 \$76 \$61 \$76
LD51B B0A, B0B B0C B0D BBC BBD	Replacement Media (SR10 HP-PHIGS) (PRISM Domain/PHIGS)	Qty: 1-5 \$81 \$111 \$131 \$111 \$131	Qty: 6-10 \$73 \$100 \$118 \$100 \$118	Qty: 11-20 \$69 \$95 \$112 \$95 \$112	21 plus \$61 \$84 \$99 \$84 \$99
LE51A BAA,EAB,BAC,BAD BBC,BBD		Domain/PHIGS Runtime (SR10) (PRISM)			605 605
LE51B BAA,BAB,BAC,BAD BBC,BBD		Domain/PHIGS Dev BSU (SR10) (PRISM)			1210 1210
LH51A LH51B		Domain/PHIGS Runtime SFW RTU Domain/PHIGS Dev RTU			60 120



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DOMAIN/OS

HP Apollo 9000 Series 400

Technical Office Software Products

Product/Options	Release	Description	U.S. List
Knowledge Broker			
An online documentation delivery and retrieval system that gives fast access to published information from anywhere on the network. It includes three parts: the Publisher which puts information into the system (Interleaf's TPS V3.0, troff, ASCII text), the Reader which extracts information through an easy-to-use mouse-driven interface, and the Intro Kit which offers some of Apollo's most popular manuals bundled with the Reader.			
LA32A		Knowledge Broker Reader	
BAC, BAD	(SR10)	License, Media & Documentation	\$555
BBC, BBD	(PRISM)		\$555
LA33A		Knowledge Broker Publisher	
BAC, BAD	(SR10)	License, Media & Documentation	\$1,515
BBC, BBD	(PRISM)		\$1,515
LA81A		Knowledge Broker Introduction Kit	
BAC, BAD	(SR10)	License, Media & Documentation	\$605
BBC, BBD	(PRISM)		\$605
LB32AC00	2-9 nodes	Knowledge Broker Reader	\$275
	10-24 nodes	Corporate License	\$250
	25-49 nodes		\$225
	50-99 nodes		\$200
	100 plus nodes		\$175
LB33AC00	2-9 nodes	Knowledge Broker Publisher	\$900
	10-24 nodes	Corporate License	\$750
	25-49 nodes		\$750
	50-99 nodes		\$750
	100 plus nodes		\$750
LB81AC00	2-9 nodes	Knowledge Broker Introduction Kit	\$325
	10-24 nodes	Corporate License	\$300
	25-49 nodes		\$275
	50-99 nodes		\$250
	100 plus nodes		\$225
LE32A		Knowledge Broker Reader	
AAC,AAD	(SR9.7)		605
BAC,BAD	(SR10)		605
BBC,BBD	(PRISM)		605
LE33A		Knowledge Broker Publisher's	
AAC,AAD	(SR9.7)		222
BAC,BAD	(SR10)		222
BBC,BBD	(PRISM)		222
LH32		Knowledge Broker Reader License RTU	150
LH33		Knowledge Broker Publisher's Kit RTU	55



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Workstation
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DOMAIN/OS

HP Apollo 9000 Series 400

Hardware Support Software

Product/Options	Release	Description	U.S. List			
TRANS (Translate UNIX into Postscript)						
Translates UNIX's device independent "TROFF" print commands into PostScript print commands.						
LA630 BAB, BAC, BAD	(SR10)	License, Media & Documentation	\$960			
LB630BAD	2-9 nodes	Corporate License	\$875			
	10-24 nodes		\$750			
	25-49 nodes		\$700			
	50-99 nodes		\$650			
	100 plus nodes		N/A			
LD630 B0B, B0C, B0D	Replacement Media (SR10)	Qty: 1-5 \$81	Qty: 6-10 \$73	Qty: 11-20 \$69	21 plus	\$61
LE630 BAB,BAC,BAD		Transcript BSU (SR10)	405			
LH63		Transcript RTU	100			

VERSATEC

Driver Software for Multibus controller board (Multi-port IKON 85). Supports Centronics Parallel, or Versatec differential or Versatec TTL output port on Multibus-based systems.

LA640 BAA,BAB,BAC,BAD	(SR10)	V.8 License, Media & Documentation	\$202			
LB640000	2-9 nodes	V.8 Corporate License	\$180			
	10-24 nodes		\$150			
	25-49 nodes		N/A			
	50-99 nodes		N/A			
	100 plus nodes		N/A			
LD640 B0A, B0B B0C B0D	Replacement Media (SR10)	Qty: 1-5 \$16 \$78 \$98	Qty: 6-10 \$14 \$70 \$88	Qty: 11-20 \$13 \$66 \$83	21 plus	\$12 \$50 \$76
LE640 BAA,BAB,BAC,BAD		VERSATEC BSU (SR10)	81			
LH64		VERSATEC RTU	20			



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DOMAIN/OS HP Apollo 9000 Series 400

System Administration Tools

Product/Options	Release	Description	U.S. List
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OmniBack Network Backup System

A network oriented approach to the process to file system backup and restore. It supports automatic unattended filesystem backup and simple, rapid file restore. Requires SR10.1 or greater and PRISM. This product contains software for both the Motorola and PRISM architectures.

B1942A	HP OmniBack Base License for IIP 9000 Series 300/400/700/800 and Apollo Domain workstations; HP OmniBack is a network oriented backup management system for distributed IIP-UX and Apollo Domain environments. Must be ordered prior or together with node licenses and platform software; IIP OmniBack/Turbo for Series 600/700/800 counts as a Base License. <i>NOTE: First time purchase must include B1942A or B1929A for the S700, B1943A and B1947A</i>		\$5,050.
B1943A	HP OmniBack Node License for IIP 9000 Series 300, 400, 700, 800 and Apollo Domain workstations. Must be ordered for each workstation in the backup environment.	Price per workstation (1-24 workstation) \$150. (25-99 workstation) \$135. (100 plus) \$110.	
B1947A	HP OmniBack Platform Software for Apollo Domain workstations Must specify media option and language option; Must be ordered together with node licenses.		\$250.
AA0	1/4" Cartridge tape		N/C
AA1	1/2" Magnetic tape		N/C
ABA	U.S. English		N/C
AGZ	Evaluation Copy 3 months <i>Must specify media option (AA0)</i>		-\$200.

Passwd Etc

A user account management system that manages both login and password information for a heterogeneous distributed network. Requires one Apollo running SR10 for server capabilities. Passwd Etc is included in SR10.

LA75ADDD	License, Media & Documentation – SUN (Requires Sun 3 with SunOS 4.0)				\$1,010.
LD75ADAD	Replacement Media <i>SUN</i>	<i>Qty: 1-5</i> \$71	<i>Qty: 6-10</i> \$64	<i>Qty: 11-20</i> \$61	<i>21 plus</i> \$54.
LE75ADAD	Passwd Etc BSU Sun				\$800.
LH75	Passwd Etc RTU				\$100.

B2681A	Passwd Etc for Series 300/400 Requires one Domain system running SR10. or later as Registry server.		\$225.
#AA0	Provides software on 1/4-inch cartridge tape		\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.		N/C

B2679A	Passwd Etc for Series 300/400 Runs as Registry server.		\$225.
#AA0	Provides software on 1/4-inch cartridge tape		\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.		N/C



Workstation
Systems Division

DOMAIN/OS HP Apollo 9000 Series 400

Networking and Communications

Product/Options	Release	Description	U.S. List
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GATEWAY NODE LICENSE

Apollo/X.25 Communications

Enables Apollo workstations to communicate over packet-switched wide area networks (WAN). This includes file transfer, electronic mail, remote log in, and remote program execution. Requires the SCAT card. - GATEWAY

LA67A BAB, BAC, BAD	(SR10)	License, Media & Documentation				\$4,035
LD670 B0A, B0B B0C B0D	Replacement Media (SR10)		Qty: 1-5 \$16 \$78 \$98	Qty: 6-10 \$14 \$70 \$88	Qty: 11-20 \$13 \$66 \$83	21 plus \$12 \$50 \$76
LE67A BAB,BAC,BAD		X.25 Communications Software BSU (SR10)				285
LH67		X.25 Communications Software RTU				65

SNA Facility

Provides IBM System Network Architecture (SNA) base protocol stack support for terminal emulations and program-to-program communication. Requires the SCAT card - GATEWAY

LAA0A BAB, BAC, BAD BBC, BBD	SR10, 68K PRISM	Integrated SNA Facility License, Media & Documentation				\$1,100 \$1,100
LBA0A000		Corporate License				\$1,000
LDA0A BAB, BAC, BAD BBC, BBD	(SR10) (PRISM)	Replacement Media				\$200 \$200
LEA0A BAB,BAC,BAD BBC,BBD		SNA Facility (SR10) (PRISM)				750 750
LHA0		Apollo/Integrated SNA Facility				\$30



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*Workstation
Systems Division*

DOMAIN/OS HP Apollo 9000 Series 400

Networking and Communications

Product/Options	Release	Description	U.S. List
SNA 3270			
Emulates IBM 3278 series or 3279 interactive terminals within an Apollo workstation window. Includes PC3270 file transfer capability. Requires Apollo/Integrated SNA Facility gateway. Licensed per CONCURRENT SESSION.			
LAA20 BAB, BAC, BAD BBC, BBD	SR10 PRISM	Integrated SNA 3270 License, Media & Documentation	\$495 \$495
LBA2000	10-24 nodes 25-49 nodes 50-99 nodes 100 plus nodes	Corporate License	\$295 \$265 \$245 \$230 \$220
LDA20 BAC, BAD BBC, BBD	(SR10) (PRISM)	Replacement Media	\$150 \$150
LEA20 BAB,BAC,BAD BBC,BBD		SNA 3270 (SR10) (PRISM)	250 250
LHA2		Apollo/Integrated SNA 3270	\$10

SNA LU6.2

Developer's kit including C language source and include files for developing LU6.2/PU2.1 applications to run on Apollo workstations. Requires Apollo/Integrated SNA Facility gateway to run applications which have been developed.

LAA1A BAB, BAC, BAD BBC, BBD	(SR10), 68K (PRISM)	SNA LU 6.2 Facility License, Media & Documentation	\$4,900 \$4,900
LBA1A000		Corporate License	\$4,800
LDA1A BAC, BAD BBC, BBD	(SR10) (PRISM)	Replacement Media	\$250 \$250
LEA1A BAB,BAC,BAD BBC,BBD		SNA LU6.2 (SR10) (PRISM)	3000 3000
LHA1		Apollo/Integrated SNA LU6.2	\$60



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DOMAIN/OS HP Apollo 9000 Series 400

Networking And Communications Cont'd

Product/Options	Release	Description	U.S. List			
Network File System (NFS)						
Allows complete interoperability of the Domain Distributed File System and NFS machines (both as a client and a server). - NODE LICENSE						
LA390						
BAA,BAB,BAC,BAD	(SR10)	License, Media & Documentation	\$605			
BBC, BBD	(PRISM)		\$605			
LB390000						
	2-9 nodes	Corporate License	\$390			
	10-24 nodes		\$180			
	25-49 nodes		\$120			
	50-99 nodes		\$90			
	100 plus nodes		\$60			
LD390						
B0A, B0B	Replacement Media	Qty: 1-5	Qty: 6-10	Qty: 11-20	21 plus	
B0C	(SR10)	\$71	\$64	\$61	\$54	
B0D		\$101	\$91	\$86	\$61	
B0D		\$126	\$114	\$107	\$95	
BBC	(PRISM)	\$101	\$91	\$86	\$61	
BBD		\$126	\$114	\$107	\$95	
LE390						
BAA,BAB,BAC,BAD		Network File System (NFS) BSU				
BBC,BBD	(SR10)		242			
	(PRISM)		242			
LH39						
		Network File System (NFS) RTU	30			

Task Broker - Task Broker is a software product that provides efficient access to computers across a network. Task Broker selects the best computer on a network to run a batch type task, transparently transfers its associated data to the selected computer, and sends the results back to the user upon completion of the task. Applies to Series 300/400/600/700/800, DN2500, 3500, 4500, and 10000 workstations/systems. Media and documentation must be ordered separately. Licenses are restricted to a local area network. For purposes of this license, a local area network is defined as all systems connected to the same physical ethernet or token ring.

B1740L	Task Broker License-to-Use - up to 10 workstations/systems	\$5,000
B1741A	Task Broker License-to-Use - up to 50 workstations/systems	\$15,000
B1742L	Task Broker Site License-to-Use	\$30,000
B1743A		
	Media and Documentation for Series 2500, 3500, 4500, 10000 and Domain Series 400 Task Broker Software. Supports SR10 and PRISM releases. Requires prior or concurrent purchase of B1740/1/2L. Must order Opt. AAQ.	\$300
AAQ		
	Software on 1/4-inch Domain cartridge tape for Series 2500, 3500, 4500, and 10000	N/C



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DOMAIN/OS

HP Apollo 9000 Series 400

Other Software Products

Product/Options	Release	Description	U.S. List
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General Purpose I/O Software (GPIO) Supports system calls which allow customers to write device drivers for peripheral devices attached to our various peripheral buses.

LA250						
BAA, BAB, BAC, BAD	(SR10)	License, Media & Documentation				\$2,525
BBC, BBD	(PRISM)					\$2,525
LB250000	2-9 nodes	Corporate License				\$2,000
	10-24 nodes					\$1,300
	25-49 nodes					\$1,200
	50-99 nodes					\$1,100
	100 plus nodes					\$1,000
LD250	Replacement Media		Qty: 1-5	Qty: 6-10	Qty: 11-20	21 plus
B0A, B0B	(SR10)		\$16	\$14	\$13	\$12
B0C			\$78	\$70	\$66	\$50
B0D			\$98	\$88	\$83	\$74
BBC	(PRISM)		\$78	\$70	\$66	\$50
BBD			\$98	\$88	\$83	\$74
LE250		General Purpose I/O Software BSU				
BAA, BAB, BAC, BAD	(SR10)					810
BBC, BBD	(PRISM)					810
LH25		General Purpose I/O Software RTU				180

Domain 5080 Emulator Emulates the IBM 5080 Model 1 graphics terminal.

LA74J000		License, Media & Documentation - 4 Users				\$12,120
LA74K000		License, Media & Documentation - 8 Users				\$18,180
LA74L000		License, Media & Documentation - 12 Users				\$24,240
LD740	Replacement Media		Qty: 1-5	Qty: 6-10	Qty: 11-20	21 plus
B0A, B0B	(SR10)		\$69	\$62	\$59	\$52
B0C			\$78	\$70	\$66	\$50
B0D			\$98	\$88	\$83	\$74

CGMGL-2

CGM to HPGL-2 conversion software and GL-2 Plotter interface installation instructions. Software runs on OS levels SR 10.1 or greater. Media is on cartridge tape.

LAB6A		License, Media & Documentation				
BAD	(SR10)					\$150
BBD	(PRISM)					\$150
LBB60000	2-9 nodes	CGMGL-2 Corporate License				\$120
	10-24 nodes					\$110
	25-99 nodes					\$100
	100 plus nodes					\$95
LEB6A		CGMGL-2				
BAD	(SR10)					\$50
BBD	(PRISM)					\$50
LHB6		CGMGL-2				\$2



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DOMAIN/OS

HP Apollo 9000 Series 400

MATURE PRODUCTS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425t FLEXIBLE STRUCTURE

A1630E	Model 425t SPU Includes: - 25MHz MC68040 processor - 8MB ECC RAM, expandable to 64MB - 32 bit DIO-II graphics slot - Internal I/O - HP-HIL interface - Domain keyboard interface - RS-232C serial interface, expandable to 3 interfaces - SCSI interface - Parallel (Centronics) interface - IEEE 802.3 Ethernet LAN interface with ThinLAN and BNC "T" connector and AUI (jumper selectable) (configured to activate ThinLAN and BNC connector; May be configured to activate AUI instead with Opt. AL9) - License-to-use: Domain OS (Sys V.3, BSD4.3, AEGIS)	Localization Kit A1098A Minimum Domain/OS SR10.34	\$6,890	\$17.
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NOTE: The Model 425t SPU may not be ordered without also ordering a graphics card.
A graphics monitor may be ordered separately.
The graphics are required for proper operation of the SPU.

Primary Operating System

Must include

#AGK	DOMAIN/OS (Must order operating system media and documentation separately).		N/C	N/C
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Graphics

Must choose one

#AD7	Add 1280 X 1024 VRX Monochrome graphics interface		\$2,000.	N/C
#AD8	Add 1280 X 1024 VRX Color graphics interface		\$4,000.	N/C
#ADB	Add 1280 X 1024 Personal VRX P2 graphics subsystem		\$14,000.	\$27
#ADC	Add 1280 X 1024 Personal VRX P3 graphics subsystem		\$18,000.	\$33

Monitors

May choose one

#ADG	19" Monochrome 1280 X1024	Option AD7	N/C	\$10.
#ADH	16" Color 1280 X1024	Not avail. with #AD7	N/C	\$5.
#ADJ	19" Color 1280 X1024	Not avail. with #AD7	\$2,000.	\$25.

Add ECC RAM

May choose up to three of #AN4 and #AN8 combined

#AN4	Add 8MB RAM (1 Mbit DRAM)		\$1,200.	\$2.
#AN5	Convert original 8MB RAM (1 Mbit DRAM) to 16MB (4 Mbit DRAM)		\$1,200.	\$6.
#AN8	Add 16MB RAM (4 Mbit DRAM)		\$2,400.	\$8.

Additional I/O

May choose any

#AL3	Add Apollo Token Ring interface		N/C	\$10.
#AL9	Select LAN AUI configuration		N/C	N/C



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Systems Division

DOMAIN/OS

HP Apollo 9000 Series 400

MATURE PRODUCTS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425s FLEXIBLE STRUCTURE

A1421B	Model 425s SPU includes: - 25MHz MC68040 processor - 8MB ECC RAM, expandable to 128MB - 2 - 32 bit DIO-II graphics slots - Internal I/O - HP-HIL interface - Domain keyboard interface - RS-232C serial interface, expandable to 3 interfaces - SCSI interface - Parallel (Centronics) interface - IEEE 802.3 Ethernet LAN interface with ThinLAN and BNC "T" connector and AUI (jumper selectable) (configured to activate ThinLAN and BNC connector; May be configured to activate AUI instead with Opt. AL9) - License-to-use: Domain OS (Sys V.3, BSD4.3, AEGIS)	Localization Kit A1098A Min. Domain/OS SR10.3.4	\$11,890	\$24.
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Primary Operating System

Must include

#AGK	DOMAIN/OS (Must order operating system media and documentation separately).		N/C	N/C
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Graphics

Must choose one

#AD7	Add 1280 X 1024 VRX Monochrome graphics interface		\$2,000.	N/C
#AD8	Add 1280 X 1024 VRX Color graphics interface		\$4,000.	N/C
#ADB	Add 1280 X 1024 Personal VRX P2 graphics subsystem		\$14,000.	\$27
#ADC	Add 1280 X 1024 Personal VRX P3 graphics subsystem		\$18,000.	\$33

Monitors

Must choose one

#ADG	19" Monochrome 1280 X1024	Option AD7	N/C	\$10.
#ADH	16" Color 1280 X1024	Not avail. with #AD7	N/C	\$5.
#ADJ	19" Color 1280 X1024	Not avail. with #AD7	\$2,000.	\$25.

Add ECC RAM

May choose up to three of #AN4 and #AN6 combined

#AN1	Convert original 8MB RAM (1 Mbit DRAM) to 32MB (4 Mbit DRAM)		\$3,600.	\$12.
#AN4	Add 8MB RAM (1 Mbit DRAM)		\$1,200.	\$2.
#AN6	Add 32MB RAM (4 Mbit DRAM)		\$4,800.	\$14.

Add Cache Memory

May choose

#AN9	Add 128KB External Cache		\$1,000.	N/C.
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DOMAIN/OS HP Apollo 9000 Series 400

MATURE PRODUCTS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425s FLEXIBLE STRUCTURE - DOMAIN/OS Cont'd

Full Height Internal Mass Storage

May choose one of each, maximum of two

#AM5 Add 660MB SCSI Disk

#AM6 Add second 660MB SCSI Disk

Opt. AM5

\$5,000.

\$5,000.

\$15.

\$15.

Half Height Internal Mass Storage

May choose

#AM9 Add 1/4" QIC format tape drive

\$2,000.

\$25.

Internal I/O

May choose any

#AL2 Add 4 EISA slot internal expander

\$2,000.

N/C

Additional I/O

May choose any

#AL3 Add Apollo Token Ring interface

Opt. AL2

N/C

\$10.

#AL9 Select LAN AUI configuration

N/C

N/C



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DOMAIN/OS HP Apollo 9000 Series 400

DISCONTINUED PRODUCTS

Product Number	Description	Prerequisite	U.S. LIST \$	Next Day Service
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MODEL 425t WORKSTATIONS

Model 425t VRX Monochrome Workstations (1280X1024)

A2109A	VRX, 19" monochrome monitor, 16MB RAM, 210MB disk drive, Apollo Token Ring interface Available options AM2, AL9		\$13,390.	\$50.
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Model 425t GRX Grayscale Workstations (1280X1024)

A2170A	GRX, 19" grayscale monitor, 16MB RAM, 210MB disk drive, Apollo Token Ring interface Available options AM2, AL9		\$13,390.	\$59.
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Model 425t VRX Color 2D Workstations (1280 X 1024)

A2112A	VRX, 16" color monitor, 16MB RAM, 210MB disk drive, Apollo Token Ring interface Available options AM2, AL9		\$15,390.	\$45.
A2113A	VRX, 19" color monitor, 16MB RAM, 210MB disk drive, Apollo Token Ring interface Available options AM2, AL9		\$17,390.	\$65.

Model 425t CRX Color 2D Workstations (1280 X 1024)

A2171A	CRX, 19" color monitor, 16MB RAM, 210MB disk drive, Apollo Token Ring interface Available options AM2, AL9		\$17,390.	\$73.
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Model 425t Personal VRX P3 3D Workstations (1280 X 1024)

A2114A	Personal VRX P3, 19" color monitor, 16MB RAM, 2x210MB disk, Apollo Token Ring interface Available options AL9		\$33,390.	\$105.
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Internal Storage

#AM2	Add 210MB SCSI disk drive, factory integrated. <i>Maximum of one option AM2 per workstation.</i>	Model 425t systems with 210MB disks	\$2,000.	
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ADD ECC RAM

98229C	ADD 4MB ECC RAM set (1 Mbit) add-on	Models 400t, 425t	\$1,250.	\$4.
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Internal Storage

A1440A	210MB internal SCSI disk drive	Models 400t, 425t	\$2,000.	\$7.
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HP Apollo 9000 Series 400

SUPPORT

HP Apollo Maintenance Services

HP Apollo Maintenance Services for workstations provide you with high-quality support that enables you to maximize computer system uptime and productivity. Hewlett-Packard's professionalism and commitment to quality ensure that you receive maximum availability from your HP computer products.

HP Apollo Maintenance provides the following:

- **Remote problem solving assistance:** Get the most productivity out of your systems by working with experts at the HP Response Center to quickly solve your computing problems, or through electronic access support information using HP Support Line.
- **On-site hardware support:** Maximize computer system uptime and productivity through assistance from local HP engineers, backed by additional local and worldwide resources.
- **Personalized technical assistance:** Maximize the effectiveness of your people and improve the productivity of your system through an account-assigned support consultant who understands your business goals and knows your operating environment.
- **Software Updates:** Protect your investment in computer systems through software updates which ensure your system is compatible with new hardware, software and peripherals.

Choose the program which best meets your business needs

Under the HP Apollo Maintenance Program, we offer you three alternatives for purchasing support on your specific business needs. You may choose from:

- **HP Apollo Comprehensive Maintenance** – covers your total support needs in a single product offering at the best price.
- **HP Apollo Separate Services** – provides an alternative when full support coverage is not required or modified coverage hours are necessary.
- **HP Apollo Custom Support Plan** – lets you mix contractual support with other support services such as education and consulting, creating a customized support solution to meet your needs.

HP Apollo Comprehensive Maintenance

Now you can buy comprehensive support coverage – hardware, software and even network support – for your entire workstation environment in a single service. With HP Apollo Comprehensive Maintenance Service, you get the full features and benefits of HP's separate services in a simplified package, priced lower than purchasing the individual separate support services. In addition to the standard features and benefits of the separate support services, HP Apollo Comprehensive Maintenance provides:

- **Complete support.** HP Apollo Comprehensive Maintenance provides complete coverage for your computing environment. HP owns your problems and with a single telephone call HP's worldwide support resources are at your fingertips.
- **Simple support to manage.** The Comprehensive Maintenance service offers you an enhanced support offering which has simplified the contract management process for you. You spend less time understanding contract documentation and handling contract changes, and more time focusing on critical business issues.
- **Cost-effective support.** HP Apollo Comprehensive Maintenance covers your complete workstation environment at a lower price than you would pay if you purchased the individual hardware, software and network support services.

HP Apollo Comprehensive Maintenance support is very flexible and can be adapted to meet the needs of any workstation environment, today and as you expand into the future. Based on your environment, we will help you to select one of these two products that best meets your needs:

- **Simple all HP Apollo LAN Environments:** For a single site network of HP workstations, you receive full coverage for your hardware, software and node-to-node communications.

H2579A + 000 HP Apollo workstation Maintenance Services for workstations. Provides software phone assistance and next day on-site response for hardware.

- **Complex Network Environments:** in today's world of complex, multivendor and multisite networked computing environments, you receive full coverage for your hardware, software and network products:

H2580A + 000 HP Apollo Comprehensive Maintenance for networked workstations. Provides software/network telephone assistance, network problem management assistance, and fault isolation. Includes next day on-site response for hardware assistance.



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HP Apollo 9000 Series 400

SUPPORT Cont'd

HP Apollo Comprehensive maintenance is a single, flexible package providing hardware, software and if necessary, network, support for all your workstation products. Your actual monthly price will depend upon your workstation configuration, support features and hardware response time required. Contact your local sales representative for more information or ordering assistance.

HP Apollo Separate Services

Like HP Comprehensive Maintenance, the separate support services provide you with high-quality support that enables you to maximize computer system uptime and productivity. The separate hardware or software/network support services offer you a better alternative when only a subset of the full coverage solution best meets your needs. In these instances, you may purchase the following services separately.

- * Hardware support - HP SuccessLine Service
- * Software and network support - HP TeamLine, HP Network ResponseLine, HP ResponseLine, HP BasicLine and HP ApolloLine.

HP SuccessLine Service - On-Site Hardware Support

HP SuccessLine Service gives you the flexibility to choose response times and coverage periods that meet your needs, while providing excellent value for your money. When a hardware problem arises, you will receive assistance from local HP engineers, backed by our local and worldwide resources.

Choosing the right HP SuccessLine service level for you depends upon the critical nature of your applications and the availability of alternate computing resources. While these service levels meet the needs of most customers, HP also has the flexibility to individualize service for you. Your HP support representative can discuss these alternatives with you.

You may choose from four standard service levels:

Priority Plus Service.

If your applications are extremely critical and calls for maximum availability, this service level will provide you with maximum coverage hours and days at HP's best possible response.(1) This coverage is ideal if you have crucial applications or multiple-shift operations.

Priority Support.

If you require maximum availability during standard business hours and evenings and a very rapid response from HP, then this service level will meet your needs. On-site service is available for several hours beyond the standard business day, and HP will respond to your service request as quickly as possible.(1) This coverage is provided during the normal work week.

Next Day Service.

If your application allows for service delivery on the following business day, then this service level will be your most cost-effective solution for support. This solution is ideal if you have spare or substitute equipment.

Scheduled Support.

This service level offers the lowest cost support for your HP computer products. It is an economical support solution if you have alternate PCs or workstations and your users are running less-critical applications. An HP engineer makes scheduled weekly visits to a central site at your location.

(1) Response time of 4 hours, but typical response times are shorter.

Support Selection Guide for HP SuccessLine Service				
	Priority Plus 02G	Priority 02A	Next Day 02C	Scheduled 02L
Coverage Hours	24 hours 7 days	8 am - 9 pm* Mon - Fri	8 am - 5 pm Mon - Fri	8 am - 5 pm Mon - Fri
Response Time	Best response; not to exceed 4 hours	Best response; not to exceed 4 hours	Next working day	Scheduled weekly visits
Usage Environment	Highly critical	Urgent	Less critical	Multiple units; spare equipment
* If you request service before 5:00 pm, an HP engineer will respond on-site with 4 hours, if an on-site call is necessary.				



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HP Apollo 9000 Series 400

HP HARDWARE SUPPORT SERVICES

Product Number	Description	02G	02A	02C	02L
A2130A	425e Grayscale diskless	43	34	23	15
#ANB	16 MB RAM	6	5	4	3
#AL9	AUI LAN	0	0	0	0
A2131A	425e Grayscale 210 MB disk	66	52	37	26
#ANB	16 MB RAM	6	5	4	3
#AMB	Flexible disk	8	6	5	4
#AM8	CD ROM	27	22	18	13
#AL9	AUI LAN	0	0	0	0
A2132A	425e Grayscale 420 MB disk	87	69	51	36
#ANF	24 MB RAM	6	5	4	3
#AMB	Flexible disk	8	6	5	4
#AM8	CD ROM	27	22	18	13
#AL9	AUI LAN	0	0	0	0
A2134A	425e 16" Color diskless	32	26	21	15
#ANB	16 MB RAM	6	5	4	3
#AL9	AUI LAN	0	0	0	0
A2135A	425e 16" Color 210 MB disk	55	44	35	26
#ANB	16 MB RAM	6	5	4	3
#AMB	Flexible disk	8	6	5	4
#AM8	CD ROM	27	22	18	13
#AL9	AUI LAN	0	0	0	0
A2136A	425e 16" Color 420 MB disk	76	61	49	36
#ANF	24 MB RAM	6	5	4	3
#AMB	Flexible disk	8	6	5	4
#AM8	CD ROM	27	22	18	13
#AL9	AUI LAN	0	0	0	0
A2139A	425e 19" Color diskless	57	46	37	26
#ANB	16 MB RAM	6	5	4	3
#AL9	AUI LAN	0	0	0	0
A2140A	425e 19" Color 210 MB disk	86	69	55	40
#ANF	24 MB RAM	6	5	4	3
#AMB	Flexible disk	8	6	5	4
#AM8	CD ROM	27	22	18	13
#AL9	AUI LAN	0	0	0	0



HEWLETT
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Workstation
Systems Division

HP Apollo 9000 Series 400

HP HARDWARE SUPPORT SERVICES Cont'd

Product Number	Description	02G	02A	02C	02L
A2141A	425e 19" Color 420 MB disk	101	81	65	47
#ANF	24 MB RAM	6	5	4	3
#AMB	Flexible disk	8	6	5	4
#AM8	CD ROM	27	22	18	13
#AL9	AUI LAN	0	0	0	0
A2100A	425t Mono VRX diskless	49	39	27	19
#ANB	16 MB	7	6	6	5
#AL9	AUI LAN	0	0	0	0
A2102A	425t 16" Color VRX diskless	39	31	22	15
#ANB	16 MB	7	6	6	5
#AL9	AUI LAN	0	0	0	0
A2103A	425t 19" Color VRX diskless	82	66	42	29
#ANB	16 MB	7	6	6	5
#AL9	AUI LAN	0	0	0	0
A2164A	425t 19" Color VRX	113	91	73	53
#AMT	420 MB disk	38	30	24	18
#AL9	AUI LAN	0	0	0	0
A2162A	425t GRX diskless	55	44	31	21
#ANB	16 MB	6	5	4	3
#AL9	AUI LAN	0	0	0	0
A2163A	425t GRX 420 MB disk	99	79	59	42
#AMT	420 MB disk	38	30	24	18
#AL9	AUI LAN	0	0	0	0
A2165A	425t CRX diskless	69	56	45	26
#ANB	16 MB	6	5	4	3
#AL9	AUI LAN	0	0	0	0
A2166A	425t CRX 420 MB disk	113	91	73	53
#AMT	420 MB disk	38	30	24	18
#AL9	AUI LAN	0	0	0	0
A2167A	425t PVRX P3 420 MB disk	164	132	106	78
#AMT	420 MB disk	38	30	24	18
#AL9	AUI LAN	0	0	0	0



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HP Apollo 9000 Series 400

Workstation
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HP HARDWARE SUPPORT SERVICES Cont'd

Product Number	Description	02G	02A	02C	02L
A2116A	425s Mono VRX, 660 MB	90	73	55	41
#ANC	32 MB	17	13	12	9
#AM6	660 MB disk	23	9	15	11
#AM8	CD ROM	27	22	18	14
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2180A	425s GRX, 660 MB	95	77	57	41
#ANC	32 MB	12	10	8	6
#AMP	1.3 GB disk	17	13	11	8
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2181A	425s GRX, 660 MB, DIO-II	95	77	57	41
#ANC	32 MB	12	10	8	6
#AMP	1.3 GB disk	17	13	11	8
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2117A	425s Color VRX, 660 MB	123	100	70	51
#ANC	32 MB	17	13	12	9
#AM6	660 MB disk	23	19	15	11
#AM8	CD ROM	27	22	18	14
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2118A	425s Color VRX, 660 MB, DIO-II	123	100	70	51
#ANC	32 MB	17	13	12	9
#AM6	660 MB disk	23	19	15	11
#AM8	CD ROM	27	22	18	14
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2183A	425s CRX, 660 MB	109	89	71	52
#ANC	32 MB	12	10	8	6
#AMP	1.3 GB disk	17	13	11	8
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0



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HP Apollo 9000 Series 400

HP HARDWARE SUPPORT SERVICES Cont'd

Product Number	Description	02G	02A	02C	02L
A2184A	425s CRX, 660 MB, DIO-II	109	89	71	52
#ANC	32 MB	12	10	8	6
#AMP	1.3 GB disk	17	13	11	8
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2185A	425s CRX, 660 MB, EISA	109	89	71	52
#ANC	32 MB	12	10	8	6
#AMP	1.3 GB disk	17	13	11	8
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2119A	425s PVRX P3, 660 MB, DIO-II	184	148	109	80
#ANE	64 MB	22	17	14	10
#AM6	660 MB disk	23	19	15	11
#AM8	CD ROM	27	22	18	14
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2187A	425s PVRX P3, 1.3 GB, DIO-II	189	153	123	91
#ANE	64 MB	24	20	16	12
#AM8	CD ROM	27	22	18	13
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2120A	425s TVRX T2, 660 MB, DIO-II	335	269	206	152
#ANE	64 MB	22	17	14	10
#AM6	660 MB disk	23	19	15	11
#AM8	CD ROM	27	22	18	14
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2121A	425s Server, 660 MB, DIO-II	104	85	67	50
#ANC	32 MB	17	13	12	9
#AM6	660 MB disk	23	19	15	11
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
xA2189A	425s Server, 1.3 GB, DIO-II	116	94	76	56
#ANC	32 MB	12	10	8	6
#AM7	DAT	40	32	26	19
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0



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Product Number	Description	02G	02A	02C	02L
A2523A	433s GRX, 19" 16MB RAM, 1.3GB No I/O	106	85	68	51
#ANC	32 MB	17	13	12	9
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2524A	433s GRX, 19" 16MB RAM, 1.3GB with DIO-2	106	85	68	51
#ANC	32 MB	17	13	12	9
#AMW	Flexible disk	8	6	5	4
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2525A	433s GRX, 19" 16MB RAM, 1.3GB 106 with EISA	85	68	51	75 3 420
#ANC	32 MB	17	13	12	9
#AMW	Flexible disk	8	6	5	4
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2526A	433s CRX, 19" 16MB RAM, 1.3GB 128 no I/O	103	82	62	75 3 420
#ANC	32 MB	17	13	12	9
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2527A	433s CRX, 19" 16MB RAM, 1.3GB with DIO-2	128	103	82	62
#ANC	32 MB	17	13	12	9
#AMW	Flexible disk	8	6	5	4
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2528A	433s CRX, 19" 16MB RAM, 1.3GB 128 with EISA	103	82	62	75 3 420
#ANC	32 MB	17	13	12	9
#AMW	Flexible disk	8	6	5	4
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2529A	433s Server, 16MB RAM, 1.3GB No Graphics	90	73	58	44
#ANC	32 MB	17	13	12	9
#AMG	Add Second 1.3 GB disk	40	32	26	19
#AMW	Flexible disk	8	6	5	4
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0



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HP HARDWARE SUPPORT SERVICES Cont'd

Product Number	Description	02G	02A	02C	02L
A2530A	433s Server, 16MB RAM, 1.3GB	90	73	58	44
#ANC	32 MB	17	13	12	9
#AMG	Add Second 1.3 GB disk	40	32	26	19
#AMW	Flexible disk	8	6	5	4
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A1099A	HP-UX 7.x Localization kit	0	0	0	0
A1099B	HP-UX 8.0 Localization kit	0	0	0	0
A2205A	PC-AT IHP-UX Local. kit	0	0	0	0
A2200A	4 MB RAM for 425e	4	3	2	1
A2201A	8 MB RAM for 425e	6	5	4	3
A2202A	16 MB RAM for 425e	12	10	8	6
98229B	8 MB RAM for 4xxt, 4xxs	5	4	2	1
98229D	16 MB RAM for 4xxt, 4xxs	12	10	8	6
98229E	32 MB RAM for 4xxt, 4xxs	22	17	14	10
A2071A	210 MB disk for 425e	23	18	14	11
A2072A	420 MB disk for 425e	38	30	24	18
A2073A	3.5" Flexible disk for 425e	8	6	5	4
A2074A	CD Drive for 425e	27	22	18	13
A2075A	420 MB disk for 425t	38	30	24	18
A1443A	660 MB disk for 4xxs	23	19	15	11
A2076A	1.3 GB disk for 425s	40	32	26	19
A1447A	1.3 GB DAT for 425s	40	32	26	20
A1448A	CD Drive for 425s	27	22	18	14
A2040A	25 MHZ 68040 Upg. for 400t	0	0	0	0
A2042A	33 MHz 68040 Upg. for 400s	0	0	0	0
A2044A	25 MHz 68040 Upg. for 400s	0	0	0	0



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Product Number	Description	02G	02A	02C	02L
A2046A	33 MHz 68040 Upg. for 425s	0	0	0	0
A2078A	CRX Upg. for 400t	37	30	24	17
A2079A	CRX Upg. for 425t	37	30	24	17
A2080A	CRX Upg. for 400s	37	30	24	17
A2081A	CRX Upg. for 425s	37	30	24	17
A2145A	425e Grayscale diskless	43	34	23	15
#ANB	16 MB RAM	6	5	4	3
#AL9	AUI LAN	0	0	0	0
A2146A	425e Grayscale 210 MB disk	66	52	37	26
#ANB	16 MB RAM	6	5	4	3
#AMB	Flexible disk	8	6	5	4
#AM8	CD ROM	27	22	18	13
#AL9	AUI LAN	0	0	0	0
A2147A	425e Grayscale 420 MB disk	87	69	51	36
#ANF	24 MB RAM	6	5	4	3
#AMB	Flexible disk	8	6	5	4
#AM8	CD ROM	27	22	18	13
#AL9	AUI LAN	0	0	0	0
A2149A	425e 16" Color diskless	32	26	21	15
#ANB	16 MB RAM	6	5	4	3
#AL9	AUI LAN	0	0	0	0
A2150A	425e 16" Color 210 MB disk	55	44	35	26
#ANB	16 MB RAM	6	5	4	3
#AMB	Flexible disk	8	6	5	4
#AM8	CD ROM	27	22	18	13
#AL9	AUI LAN	0	0	0	0
A2151A	425e 16" Color 420 MB disk	76	61	49	36
#ANF	24 MB RAM	6	5	4	3
#AMB	Flexible disk	8	6	5	4
#AM8	CD ROM	27	22	18	13
#AL9	AUI LAN	0	0	0	0



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Product Number	Description	02G	02A	02C	02L
A2154A	425e 19" Color diskless	57	46	37	26
#ANB	16 MB RAM	6	5	4	3
#AL9	AUI LAN	0	0	0	0
A2155A	425e 19" Color 210 MB disk	86	69	55	40
#ANF	24 MB RAM	6	5	4	3
#AMB	Flexible disk	8	6	5	4
#AM8	CD ROM	27	22	18	13
#AL9	AUI LAN	0	0	0	0
A2156A	425e 19" Color 420 MB disk	101	81	65	47
#ANF	24 MB RAM	6	5	4	3
#AMB	Flexible disk	8	6	5	4
#AM8	CD ROM	27	22	18	13
#AL9	AUI LAN	0	0	0	0
A2108A	425t Mono VRX diskless	65	52	37	27
#ANB	16 MB	7	6	6	5
#AL9	AUI LAN	0	0	0	0
A2110A	425t 16" Color VRX diskless	55	44	32	23
#ANB	16 MB	7	6	6	5
#AL9	AUI LAN	0	0	0	0
A2111A	425t 19" Color VRX diskless	98	79	52	37
#ANB	16 MB	7	6	6	5
#AL9	AUI LAN	0	0	0	0
A2174A	425t 19" Color VRX 420 MB disk	129	104	83	61
#AMT	420 MB disk	38	30	24	18
#AL9	AUI LAN	0	0	0	0
A2172A	425t GRX diskless	71	57	41	29
#ANB	16 MB	6	5	4	3
#AL9	AUI LAN	0	0	0	0
A2173A	425t GRX 420 MB disk	115	92	69	50
#AMT	420 MB disk	38	30	24	18
#AL9	AUI LAN	0	0	0	0
A2175A	425t CRX diskless	85	69	55	34
#ANB	16 MB	6	5	4	3
#AL9	AUI LAN	0	0	0	0



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Product Number	Description	02G	02A	02C	02L
A2176A	425t CRX 420 MB disk	129	104	83	61
#AMT	420 MB disk	38	30	24	18
#AL9	AUI LAN	0	0	0	0
A2177A	425t PVRX P3 420 MB disk	180	145	116	86
#AMT	420 MB disk	38	30	24	18
#AL9	AUI LAN	0	0	0	0
A2123A	425s Mono VRX, 660 MB, EISA	106	86	65	49
#ANC	32 MB	17	13	12	9
#AMA	660 MB disk	23	19	15	11
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2190A	425s GRX, 660 MB, EISA	111	90	67	49
#ANC	32 MB	12	10	8	6
#AMQ	1.3 GB disk	17	13	11	8
#AM9	QIC	39	31	25	18
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2124A	425s Color VRX, 660 MB, EISA	139	113	80	59
#ANC	32 MB	17	13	12	9
#AMA	660 MB disk	23	19	15	11
#AM9	QIC	39	31	25	19
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2193A	425s CRX, 660 MB, EISA	125	102	81	60
#ANC	32 MB	12	10	8	6
#AMQ	1.3 GB disk	17	13	11	8
#AM9	QIC	39	31	25	18
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2194A	425s CRX, 1.3 GB, CD, DAT, EISA	209	169	136	100
#ANC	32 MB	12	10	8	6
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0



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HP Apollo 9000 Series 400

HP HARDWARE SUPPORT SERVICES Cont'd

Product Number	Description	02G	02A	02C	02L
A2125A	425s PVRX P3, 660 MB, EISA	239	192	144	107
#ANE	64 MB	22	17	14	10
#AMA	660 MB disk	23	19	15	11
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2196A	425s PVRX P3, 1.3 GB, EISA	205	166	133	99
#ANE	64 MB	24	20	16	12
#AM9	QIC	39	31	25	18
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2126A	425s Server, 660 MB, EISA	83	68	55	42
#ANC	32 MB	17	13	12	17
#AMA	660 MB disk	23	19	15	11
#AM9	QIC	39	31	25	19
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2189A	425s Server, 1.3 GB, EISA	116	94	76	56
#ANC	32 MB	12	10	8	6
#AM7	DAT	40	32	26	19
#AM9	QIC	39	31	25	19
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2535A	433s GRX, 19", 16MB RAM, 1.3GB Disk, ATR, with EISA	122	98	78	59
#ANC	32 MB	17	13	12	9
#AMW	Flexible disk	8	6	5	4
#AM9	QIC	39	31	25	18
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A2536A	433s CRX, 19", 16MB RAM, 1.3GB Disk, ATR, with EISA	144	115	92	69
#ANC	32 MB	17	13	12	9
#AMW	Flexible disk	8	6	5	4
#AM9	QIC	39	31	25	18
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0



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HP HARDWARE SUPPORT SERVICES Cont'd

Product Number	Description	02G	02A	02C	02L
A2537A	433s Server, 16MB RAM, 1.3GB Disk, ATR, with EISA	106	85	68	51
#ANC	32 MB	17	13	12	9
#AMG	Add Second 1.3 GB disk	40	32	26	19
#AMW	Flexible disk	8	6	5	4
#AM9	QIC	39	31	25	18
#AN9	128 KB cache	0	0	0	0
#AL9	AUI LAN	0	0	0	0
A1098A	Domain/OS Localization kit	0	0	0	0
A2200A	4 MB RAM for 425e	4	3	2	1
A2201A	8 MB RAM for 425e	6	5	4	3
A2202A	16 MB RAM for 425e	12	10	8	6
98229B	8 MB RAM for 4xxt, 4xxs	5	4	2	1
98229D	16 MB RAM for 4xxt, 4xxs	12	10	8	6
98229E	32 MB RAM for 4xxt, 4xxs	22	17	14	10
A2071A	210 MB disk for 425e	23	18	14	11
A2072A	420 MB disk for 425e	38	30	24	18
A2073A	3.5" Flexible disk for 425e	8	6	5	4
A2074A	CD Drive for 425e	27	22	18	13
A2075A	420 MB disk for 425t	38	30	24	18
A1444A	660 MB disk for 4xxs	23	19	15	11
A2076A	1.3 GB disk for 425s	40	32	26	19
A1447A	1.3 GB DAT for 425s	40	32	26	20
A1448A	CD ROM drive for 425s	27	22	18	14
A1449A	QIC drive for 4xxs	39	31	25	19
A2041A	25 MHZ 68040 Upg. for 400t	0	0	0	0
A2043A	33 MHz 68040 Upg. for 400	0	0	0	0



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HP HARDWARE SUPPORT SERVICES Cont'd

Product Number	Description	02G	02A	02C	02L
A2045A	25 MHz 68040 Upg. for 400s	0	0	0	0
A2047A	33 MHz 68040 Upg. for 425s	0	0	0	0
A2078A	CRX Upg. for 400t	37	30	24	17
A2079A	CRX Upg. for 425t	37	30	24	17
A2080A	CRX Upg. for 400s	37	30	24	17
A2081A	CRX Upg. for 425s	37	30	24	17



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HP Apollo 9000 Series 400

HP SOFTWARE SUPPORT SERVICES

HP 9000 Software Support Program

HP offers you a complete contractual software support program designed to provide you with the level of support that best meets your individual needs. The three levels of support are:

HP TeamLine
HP ResponseLine (and HP Network ResponseLine)
HP BasicLine

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
- Pro-active support planning
- Added services for HP applications software
- All services included in HP ResponseLine



HP ResponseLine and HP Network ResponseLine

HP ResponseLine and HP Network ResponseLine provide you with access to the HP Response Centers which are available for rapid customer assistance and quality solutions for your system needs. These services provide support for your operating system and applications, and allow you to choose between two levels of network support designed to meet the specific needs of your environment. When your HP 9000 systems operate independently, or are connected to other HP workstations, HP ResponseLine provides you with problem solving assistance. This enables you to call the HP Response Center with problems related to your operating system, HP to HP system connections and software applications. HP Network ResponseLine extends that coverage to support HP systems networked to both HP and other vendor workstations using hubs, bridges, repeaters, routers, gateways, switches and transmission lines.

What HP ResponseLine includes:

- Access to the HP Response Centers for operating system, application and HP to HP connectivity fault isolation and problem solving assistance
- Software License for updates
- Guaranteed 2 hour call return
- Electronic access to product and support information
- Electronic access to patch information and code

What HP Network ResponseLine includes:

- All the features of HP ResponseLine extended to HP supported network devices and network software
- Single point of contact for multi-vendor network fault isolation
- Multi-vendor network problem management

HP BasicLine

HP BasicLine software support service for HP 9000 computer systems provides on-line access to current, comprehensive support information along with detailed descriptions of problems and recommended solutions. This service also includes the software license for updates for all HP licensed software on your system (in conformance with the license terms that apply to underlying software). 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:

- Software License for updates
- On-line access to comprehensive problem solving information
- On-line access to training schedules, product and support news



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HP Apollo 9000 Series 400

HP SOFTWARE SUPPORT SERVICES

HP 9000 SERIES 300/400 SOFTWARE SUPPORT – Monthly Service Charge				
SUPPORT LEVEL	HP TeamLine		HP ResponseLine	HP/VAB BasicLine
PRODUCT OPTION	H2010A + T00	H2584A + T00 (*UPGRADE*)	H2011B + H00 (US) H2011A + H00 (Eur/ICON)	H2012A + L00/ H2029A + L00
#0N3 Series 300/400 (32 user)	\$320	\$230	\$90	\$40
#0N2 Series 300/400 (2 user)	\$170	\$110	\$60	\$30
#0N1 SW DEV	\$160	\$90	\$70	N/A
<i>*HP ResponseLine or HP Network ResponseLine is a prerequisite</i>				

HP 9000 SERIES 300/400 SOFTWARE UPDATE SERVICES – Monthly Service Charge			
PRODUCT OPTION	HP/VAB OP Sys (**Updates**)	HP/VAB OP Sys Updates w/ CD-ROM Doc	HP/VAB SW Update
	H2070A + S00/ H2076A + S00	H2069A + S00/ H2077A + S00	H2014A + S00 H2034A + S00
#0N3 Series 300/400 (32 user)	\$45**	\$45	\$20
#0N2 Series 300/400 (2 user)	\$45**	\$45	\$20
Software Media			
#AA0 1/4" Cart. Tape	\$15	\$15	N/A
#AAF CD-ROM	\$0	\$0	-\$5
<i>**Does Not Include Operating System Documentation Updates – Must order Manual Update Service (see below)</i>			

HP 9000 SERIES 700 MANUAL UPDATE SERVICES – Monthly Service Charge	
B2355A + Q00-0BD General Usage	\$5/mo
B2355A + Q00-0BE System Administration	\$20/mo
B2355A + Q00-0BL User Environment Documentation	\$5/mo
B2355A + Q00-0BM Starbase Programming	\$5/mo
B2355A + Q00-0BF General Programming	\$5/mo
B2355A + Q00-0BG User's Guides	\$5/mo
B2355A + Q00-0BT C/Ansi C	\$5/mo



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HP SUPPORT SERVICES

HP Apollo Custom Support Plan

For customers with unique needs that do not fall under one of the above alternatives, the HP Apollo Custom Support Plan is available. It allows us to work with you in planning and developing a solution that exactly fits your needs without losing the benefits of contractual support. This means you can budget in advance for support and include all support costs in your periodic payments.

An HP Apollo Custom Support Plan can be built on any of the contractual support offerings. In the plan, you can include anything from performance consulting and multiple system coordination to customer training and consulting services.

You should contact your local HP sales/support representative for assistance in developing an HP Apollo Custom Support plan.



HP Apollo 9000 Series 400

CONFIGURATION GUIDE

INTRODUCTION

The Series 400 family of workstations is unique because all products in it are supported on both the HP-UX and Domain operating systems. In general the operating system used makes no difference in the hardware provided with the workstations. However, there are a few exceptions. For example, the two operating systems require different keyboards, in some cases options are different, and the sets of external peripherals supported are not identical. Most of these differences are transparent because separate HP-UX and Domain/OS versions of Series 400 workstations are offered, which take the differences into account. This price guide further simplifies the choices by listing the products for the two operating systems in different sections.

This Configuration Guide takes another approach and discusses Series 400 workstations as though no operating system differences exist. Whenever the operating system does have an effect, the choices are indicated. The Series 400 also provides two different methods of ordering workstations: standard configurations or flexible configurations. Most workstations are ordered through the standard configurations. These have been defined to offer the most popular combinations of graphics, memory, and internal peripherals. Some of the Series 400 workstations (Models 425t and 425s) are also available through a very flexible structure that starts with an SPU and then "layers" on all of the other features desired through product options. The latter structure is called the "flexible configuration". This configuration guide focuses all using the standard configurations. Ordering through one of the flexible configurations is described separately in the guide.

CONFIGURING A WORKSTATION

Although the standard configurations are designed to include most of the features needed for a fully functional workstation, in most cases some other products will be needed also. Following is a general checklist of all the considerations for ordering a complete system.

- ☐ Workstation Standard Configuration
- ☐ Add Factory Integrated Options
- ☐ Localization Kit
- ☐ Additional RAM memory (customer installable)
- ☐ Additional add-on options (customer installable)
- ☐ Operating system media and documentation
- ☐ Other system software (Development tools, languages, administration tools, etc.)
- ☐ Application software
- ☐ Networking products (LAN MAU, software, cables)
- ☐ I/O cards
- ☐ External peripherals
- ☐ Peripheral cables

LOCALIZATION KITS

A localization kit should always be ordered with your workstation, unless you are ordering a server configuration. The localization kit includes critical components such as your keyboard, mouse, power cords, and system documentation. The localization option allows you to specify the country where the system will be used. That selection determines not only the appropriate set of workstation power cords to ship, but also drives selection of a localized keyboard and/or documentation, if they are available.

There is only one localization kit available for Domain/OS workstations, but three different choices exist with HP-UX.

LOCALIZATION KITS cont'd

The Domain/OS kit is the A1098A, and includes the localization options listed below.

A1098A		Domain/OS Local. Kit	
Option	Description	Keyboard	Power Cords
#ABA	North America	English	North American
#ABG	Australia	English	Australian
#ABU	United Kingdom	United Kingdom	United Kingdom
#ACC	United Kingdom	English	United Kingdom
#AKH	Switzerland	Swiss	Swiss
#ACD	Switzerland	English	Swiss
#ABY	Denmark	Danish	Danish
#ACE	Denmark	English	Danish
#ABJ	Japan	Japanese	Japanese
#ACF	Japan	English	Japanese
#ABN	Norway	Norwegian	Norwegian
#ACK	Norway	English	Norwegian
#ABD	Germany	German	German
#ACW	Germany	English	German
#ABS	Sweden/Finland	Swedish/Finnish	Swedish/Finnish
#ACY	Sweden/Finland	English	Swedish/Finnish
#ACZ	Netherlands	English	Dutch
#AKJ	Israel	English	Israeli
#AKK	Italy	English	Italian
#ABF	France	French	French

HP-UX customers have a choice of three localization kits. These are defined as follows:

A1099A	HP-UX keyboard, for use with HP-UX revisions prior to 8.0
A1099B	HP-UX keyboard, for use with HP-UX 8.0
A2205A	PC-style keyboard, for use with HP-UX 8.0

The first two localization kits are identical except for the documentation included in them. Localized versions of the HP-UX "Getting Started" manuals became available with HP-UX version 8.0. Prior to that time these manuals were packaged with the workstation itself. The localization kit A1099B was introduced with HP-UX 8.0 to include these manuals in the kit and therefore permit localized versions to be purchased. Any workstations purchased for use with HP-UX versions 7.0, 7.03, or 7.05 should order the A1099A kit. HP-UX 8.0 users should order the A1099B to receive complete documentation.

A PC-style keyboard replaces the HP-UX keyboard in the A2205A localization kit. Otherwise this kit is identical to the A1099B. The PC-style keyboard requires HP-UX 8.0. This keyboard is currently available in two versions: English and German. It is combined with country specific power cords, and the same local language documentation that is in the A1099B. To accommodate future localization, all option numbers available with A1099A/B are available on A2205A even though some are duplications today.



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LOCALIZATION KITS cont'd

A1099A HP-UX Localization kit with HP-UX keyboard, for use with HP-UX revisions prior to 8.0 and

A1099B HP-UX Localization kit with HP-UX keyboard, for use with HP-UX 8.0

Option	Description	Keyboard	Power Cords
#ABA	North America	English	North American
#ABC	Canada-French	French	North American
#ABD	Germany	German	German
#ABE	Spain	Spanish	Spanish
#ABF	France	French	French
#ABH	Netherlands	Dutch	Dutch
#ABJ	Japan	Katakana	Japanese
#ABM	Latin America	Spanish	Latin American
#ABN	Norway	Norwegian	Norwegian
#ABP	Switzerland	German	Swiss
#ABQ	Switzerland	French	Swiss
#ABS	Sweden	Swedish	Swedish
#ABU	United Kingdom	English	United Kingdom
#ABW	Belgian-Dutch	Belgian	Dutch
#ABX	Finland	Finnish	Finnish
#ABY	Denmark	Danish	Danish
#ABZ	Italy	Italian	Italian
#AB0	Taiwan	Taiwanese	Taiwanese
#AB1	Korea	Korean	Korean
#AR0	Kanji	Kanji	Japanese

A2205A HP-UX Localization kit with PC-style keyboard, for use with HP-UX 8.0

#ABA	North America	English	North American
#ABC	Canada-French	English	North American
#ABD	Germany	German	German
#ABE	Spain	English	Spanish
#ABF	France	English	French
#ABH	Netherlands	English	Dutch
#ABJ	Japan	English	Japanese
#ABM	Latin America	English	Latin American
#ABN	Norway	English	Norwegian
#ABP	Switzerland	German	Swiss
#ABQ	Switzerland	English	Swiss
#ABS	Sweden	English	Swedish
#ABU	United Kingdom	English	United Kingdom
#ABW	Belgian-Dutch	English	Dutch
#ABX	Finland	English	Finnish
#ABY	Denmark	English	Danish
#ABZ	Italy	English	Italian
#AB0	Taiwan	English	Taiwanese
#AB1	Korea	English	Korean
#AR0	Japan	English	Japanese

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POWER CORD LOCALIZATION FOR SERVERS AND (SOME) PERIPHERALS

Series 400 servers and many peripherals require a localization option in order to specify the power cord appropriate to the country in which the product will be used. Since servers do not require a localization kit, options to the server standard configurations are used. The codes listed below are used for Series 400 servers, and many peripherals. It is best to verify the localization options used for specific peripherals with your order entry co-ordinator.

Server Power Cord options #900 through #919 (below)

#900	United Kingdom	#903	North America, Taiwan, Korea	#917	Republic of South Africa, India
#901	Australia, New Zealand	#906	Switzerland	#918	Japan
#902	European	#912	Denmark	#919	Israel



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CONFIGURING A MODEL 425e WORKSTATION

The Model 425e is only available in standard configurations. These are bundled, pre-defined packages that include at least 8 MB of RAM, graphics interface and monitor, and in most cases internal mass storage. All of the standard configurations have options to request factory integration of additional RAM, peripherals, etc.

RAM and peripherals may also be added to the 425e at any time through upgrade kits that are customer installable.

A localization kit should always be ordered with any 425e workstation.

Operating System

The Model 425e requires the following minimum revision levels: HP-UX 8.0 or Domain/OS SR10.3.5

Two-user licenses for both operating systems are included with every workstation shipped. Additional licenses may be required for any additional software purchased, but these are typically included with the software.

No software is included with the workstation, except HP-UX Run-Time Instant Ignition as described below. Even with Instant Ignition, you will usually want a copy of the operating system you are using available for backup at least. This price guide includes full listings of the system software products that are available, including applicable versions of the operating system. A selection of distribution media is also available. CD ROM and DAT tape are used to distribute HP-UX, while Domain/OS is distributed on DAT or 1/4" QIC format tape.

Many workstations today are run "diskless", meaning that the operating system is maintained on a server and is loaded into workstations over the network when they are turned on, (booted). In this case, every workstation does not need a copy of the system software available on the server.

Any HP-UX standard configuration with an internal disk also includes HP-UX 8.0 Run Time Instant Ignition. This is a copy of the "Run Time" module of HP-UX 8.0, along with IHP VUE 2.0, pre-loaded on the disk. With this "Instant Ignition" package, you won't have to load the operating system from a server or other media before using the system. It will boot running HP-UX in the very friendly HP VUE environment. Ordering a copy of the operating system on separate media is still a good idea. This will provide backup in the event of disk problems.

"Getting Started" documentation is included with the localization kit that should be ordered with the Model 425e. This documentation describes the fundamentals of using your Model 425e and its system software. More in-depth documentation is available separately. You may order it either as traditional hard-copy manuals, or on CD ROM for on-line access.

Adding more RAM

The maximum amount of RAM memory possible in a Model 425e is 48 MB. RAM for Series 400 workstations is always purchased and added as pairs of boards, and a 425e contains three pairs of RAM slots. The increments of RAM possible in a 425e are 4 MB (1 pair of 2 MB boards), 8 MB (pair of 4 MB) and 16 MB (pair of 8 MB). Hence the limit to 425e RAM: 3 pairs of RAM slots available, and 16 MB maximum per pair. Any possible combination of the available RAM pairs is supported.

Because the number of RAM slot pairs is limited, it is important to make good use of the available slots. Otherwise adding RAM in the future could be difficult due to a shortage of unused slots. All factory installed RAM uses the minimum possible slots:

8 MB standard configuration = 2 X 4 MB = 1 pair of slots consumed

#ANB (add 8 MB for total of 16 MB) = 2 X 8 MB = 1 pair of slots consumed

16 MB standard configuration = 2 X 8 MB = 1 pair of slots consumed

#ANF (add 8 MB for total of 24 MB) = 2 X 8 MB + 2 X 4 MB = 2 pairs of slots consumed



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CONFIGURING A MODEL 425e WORKSTATION Cont'd

Upgrade kits installable at your site are also available to add RAM if your needs grow in the future. RAM upgrades are available in 4, 8, and 16 MB increments and require a pair of slots each.

The issue of RAM slot usage is particularly important if an upgrade to PA-RISC is anticipated for the 425e in the future. Your 425e RAM may be moved to the PA-RISC processor, but there are additional restrictions. The best rule to follow is: add RAM by duplicating a pair you already have. For example, if you have 16 MB today configured as a pair of 8 MB boards, buy a second pair of the same size for a total of 32 MB.

Adding Internal Storage

The Model 425e has two bays available for internal peripherals. One slot may only be used for a 210 or 420 MB hard disk, while the second may be used for another disk, a 3.5" floppy drive, a CD, or DDS-format tape. Most combinations are available factory installed through the standard configurations and options. If you want a combination that cannot be purchased through the standard configurations, all internal peripherals are available as upgrade kits installable at your site. These upgrade kits may also be used to add peripherals in the future if your requirements change. One rule, however, is that only one removeable media (floppy, CD, or DDS) internal peripheral is supported in a Model 425e.

An additional caution applies if the 425e could be upgraded to PA-RISC in the future. The 210 MB disk is not sufficient for the operating system in a PA-RISC system. It may still be useful for local data storage or swap space, but you will need a 420MB disk if you want to store the operating system on the workstation. You will preserve your greatest flexibility by choosing a 420 MB disk today.

I/O Features

The Model 425e comes with the following I/O features in all configurations:

- 1 - SCSI connector
- 3 - RS-232C connectors (9-pin male)
- 1 - Parallel (Centronics compatible) connector
- 1 - HP-HIL connector
- 1 - Domain/OS keyboard connector
- 1 - Microphone audio input connector
- 1 - Audio output connector
- 1 - Thinnet BNC "T" connector
- 1 - LAN AUI connector

No additional I/O slots are available in the Model 425e.

The SCSI connector is for single-ended, SCSI-1 protocol devices. The connector is a 50-pin high density female connector with bail-lock and/or thumbscrew security. The SCSI bus has internal termination. That means that no terminator is required unless external peripherals are attached to the bus. In that case the last peripheral on the SCSI daisychain requires a terminator, per the SCSI standard. The choice of terminator will depend on the peripheral's connector, and in most cases should be ordered separately.

LAN Networking

Two separate Ethernet connectors are standard on the Model 425e, as with all Series 400 and 700 workstations. Unless otherwise specified the Thinnet connector is enabled. If you want to run Ethernet through Thicknet or any other media you may order the LAN Attachment Unit Interface (AUI) configuration option (#AL9). This instructs manufacturing to reset a jumper on the processor board to enable the AUI and disable the Thinnet connectors. The jumper may also be reset anytime at your site if desired.



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CONFIGURING A MODEL 425e WORKSTATION Cont'd

Deskside Pedestal

The Model 425e is designed to be used on a desktop. Occasionally, customers prefer to use it deskside. This requires that the workstation be used vertically, not horizontally, and therefore a stand is necessary to keep it stable. This stand, or pedestal, is included in the Model 425e standard configurations.

Field-installed Model 425e Options

To enable customers to expand or upgrade their system over time, HP has made available a series of add-on products. These products can be installed in the field by either HP service engineers or customers. When ordering, be careful not to exceed the maximum configuration limits of the Model 425e. The add-on products are as follows:

Product	Option Number	Description
A2200A		4 MB ECC RAM set add-on
A2201A		8 MB ECC RAM set add-on
A2202A		16 MB ECC RAM set add-on
A2071A		210 MB internal SCSI disk drive
A2072A		420 MB internal SCSI disk drive
A2073A		1.4 MB 3.5" internal SCSI flexible disk drive
A2074A		600 MB internal SCSI CD ROM drive
A2274A	#AHP	2 GB DDS-format 4mm tape drive



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CONFIGURING A MODEL 425e WORKSTATION Cont'd

Model 425e Configuration Constraints

<u>Total amount of RAM</u> 48MB		<u>Total No. of SCSI buses</u> 1	
		One internal single-ended SCSI bus	
<u>Internal SCSI bus Configuration Constraints</u>		<u>HP-UX</u>	<u>Domain/OS</u>
Max no. SCSI devices		7	7
Two internal 3 1/2" drives (Limited to 2 hard drives or 1 hard and 1 removable media)		210MB disk 420MB disk CD-ROM 1.4MB floppy 2GB DDS	210MB disk 420MB disk CD-ROM 1.4MB floppy 2GB DDS
Max no. disk drives		7	7
Max no. CD-ROM drives		7	6
Max no. DDS (4MM DAT) drives		3	2
Max no. 9-track tape drives		0	1
Max no. 650MB magneto-optical drives		7	1
Max no. magneto-optical autochangers		2*	1
Max no. 3.5 floppy drives		1	1
Max no. 8mm tape drives		N/A	N/A
Max no. 1/4" QIC tape drive		N/A	N/A
Max no. 1.2MB 5.25" floppy drive		N/A	1
*Note: The Magneto-optical Autochangers use more than one SCSI drive address, which must be accounted for in the total of 7 allowed on a single SCSI bus.			
<u>Cable Length Constraints</u> (Internal and External)			
Internal single-ended SCSI bus max total aggregate lengths		6 meters	



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CONFIGURING A MODEL 425t WORKSTATION

The Model 425t is available in both standard configurations and a flexible configuration. The flexible configuration allows purchase of combinations of features that are not available through the standard configurations, but is more difficult to order. In addition, several recently introduced features of the 425t are not available through the flexible configuration. An explanation of ordering through the flexible configuration can be found at the end of this section of the configuration guide.

The standard configurations are bundled, pre-defined packages that include at least 8 MB of RAM, graphics interface and monitor, and in most cases internal mass storage. All of the standard configurations have options to request factory integration of additional RAM, disks, etc.

RAM and a second disk may also be added to the 425t at any time through upgrade kits that are customer installable.

A localization kit should always be ordered with any 425t workstation.

Operating System Versions

The Model 425t, like all Series 400 workstations and servers, offers a choice of either HP-UX or Domain/OS as the operating system. Since the Model 425t's introduction, both operating systems have undergone revisions to add new features, peripheral support, etc. Customers may choose which version to use with their 425t, based on issues such as application support, site standards, testing, etc. Usually the current version and at least one prior version of each operating system may be ordered.

HP-UX 7.05 or Domain/OS SR10.3.4 are the minimum operating system versions required for the Model 425t. Later versions include HP-UX 8.0, Domain/OS SR10.3.5, and Domain/OS SR10.4. These are fully compatible with the prior versions, plus add support for new features. The following internal features of the 425t require the operating system version shown. It is critical to order the appropriate operating system version for the system ordered.

	HP-UX	Domain/OS
	-----	-----
GRX Graphics	8.0	SR10.3.5
CRX Graphics	8.0	SR10.3.5
420 MB Disk Drives	8.0	SR10.3.5

See the Peripheral Support Matrix at the end of this configuration guide for operating system versions required for external peripherals.

Two-user licenses for both operating systems are included with every workstation shipped. Both are valid for the current and any previous version of the operating system. A new license may be required only when upgrading the operating system version you are using. Additional licenses may be required for any additional software purchased, but these are typically included with the software.

No software is included with the workstation, except HP-UX Run-Time Instant Ignition as described below. Even with Instant Ignition, you will usually want a copy of the operating system you are using available for backup at least. This price guide includes full listings of the system software products that are available, including applicable versions of the operating system. A selection of distribution media is also available. CD ROM and DAT tape are used to distribute HP-UX, while Domain/OS is distributed on DAT or 9-track tape.

Many workstations today are run "diskless", meaning that the operating system is maintained on a server and is loaded into workstations over the network when they are turned on, or "booted". In this case, every workstation does not need a copy of the system software available on the server.



CONFIGURING A MODEL 425t WORKSTATION Cont'd

Any Model 425t HP-UX standard configuration with an internal disk also includes HP-UX 8.0 Run Time Instant Ignition. This is a copy of the "Run Time" module of HP-UX 8.0, along with HP VUE 2.0, pre-loaded on the disk. With this "Instant Ignition" package, you won't have to load the operating system from a server or other media before using the system. It will boot running HP-UX in the very friendly HP VUE environment. Ordering a copy of the operating system on separate media is still a good idea. This will provide backup in the event of disk problems.

"Getting Started" documentation is included with the localization kit that should be ordered with the Model 425t. This documentation describes the fundamentals of using your Model 425t and its system software. More in-depth documentation is available separately. You may order it either as traditional hard-copy manuals, or on CD ROM for on-line access.

Graphics

The Model 425t standard configurations include a selection among several types of graphics systems. These are:

Monochrome VRX	Monochrome, 2D, 1280 X 1024
Color VRX	Color, 2D, 1280 X 1024
Grayscale GRX	Grayscale, 2D, 1280 X 1024
Color CRX	Color, 2D, 1280 X 1024
Personal VRX (P3)	Color, 3D, 1280 X 1024

The striking fact about this graphics selection is the apparent redundancy of the 2D systems. The VRX graphics and GRX/CRX appear identical. However, the GRX and CRX graphics were introduced several months after the original Model 425t systems were offered. Both are much higher performance than their VRX counterparts. In addition, the GRX is grayscale with 256 shades available, while Monochrome VRX is black and white only.

On the other hand, GRX and CRX graphics require later versions of Series 400 operating systems:

<u>VRX</u>	<u>GRX/CRX</u>
HP-UX 7.05	HP-UX 8.0
Domain/OS SR10.3.4	Domain/OS SR10.3.5

Customers that have not yet fully adapted the later versions of the operating system still have high quality, if lower performance, 2D graphics available through the VRX selections. Personal VRX is still the best 3D graphics subsystem available on the Model 425t. The HP-UX Personal VRX Standard Configuration also includes "Personal Visualizer" software on tape (9144A format). The "Personal Visualizer" software is not supported on Domain/OS systems.

Adding more RAM

The maximum amount of RAM memory possible in a Model 425t is 64 MB. RAM for Series 400 workstations is always purchased and added as pairs of boards, and a 425t contains four pairs of RAM slots. The increments of RAM possible in a 425t are 8 MB (1 pair of 4 MB boards) and 16 MB (pair of 8 MB). Hence the limit to 425t RAM: 4 pairs of RAM slots available, and 16 MB maximum per pair. Any possible combination of the available RAM pairs is supported.



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CONFIGURING A MODEL 425t WORKSTATION Cont'd

Because the number of RAM slot pairs is limited, it is important to make good use of the available slots. Otherwise adding RAM in the future could be difficult due to a shortage of unused slots. All factory installed RAM uses the minimum possible slots:

8 MB standard configuration = 2 X 4 MB = 1 pair of slots consumed

#ANB (add 8 MB for total of 16 MB) = 2 X 8 MB = 1 pair of slots consumed

16 MB standard configuration = 2 X 8 MB = 1 pair of slots consumed

Upgrade kits installable at your site are also available to add RAM if your needs grow in the future. RAM upgrades are available in 8 and 16 MB increments, and require a pair of slots each.

The issue of RAM slot usage is particularly important if an upgrade to PA-RISC is anticipated for the 425t in the future. Your 425t RAM may be moved to the PA-RISC processor, but maximum capacity should be considered. The high performance of PA-RISC usually implies more, and more powerful, applications. These often require additional RAM. You should purchase RAM today to consume as few pairs of slots as possible in order to preserve capacity for future expansion.

Adding Internal Storage

The Model 425t has two bays available for internal 420 MB disk drives. One disk is included, factory installed, in many of the standard configurations. A second disk is available as an option to those configurations.

The 420 MB disk is also available as an upgrade kit installable at your site. If your disk requirements change over time the upgrade kit may be used for expansion. The disk may be added to diskless systems or systems with a single disk installed. Many Model 425t systems were sold originally with 210 MB disks. The 420 MB disk may be added to these systems, assuming there is an unused disk bay. The only restriction is that many of the 210 MB systems use HP-UX 7.05 or Domain/OS SR10.3.4. Since HP-UX 8.0 or Domain/OS SR10.3.5 are required for the 420 MB disk, the older operating system versions will have to be upgraded.

An additional caution applies if the 425t could be upgraded to PA-RISC in the future. The 210 MB disk is not sufficient for the operating system in a PA-RISC system. It may still be useful for local data storage or swap space, but you will need a 420MB disk if you want to store the operating system on the workstation. You will preserve your greatest flexibility by choosing a 420 MB disk today.

I/O Features

The Model 425t comes with the following I/O features in all configurations:

- 1 - SCSI connector (with terminator)
- 1 - RS-232C connector (25-pin)
- 1 - Parallel (Centronics compatible) connector
- 1 - HP-HIL connector
- 1 - Domain/OS keyboard connector
- 1 - Microphone audio input connector
- 1 - Audio output connector
- 1 - Thinnet BNC "T" connector
- 1 - LAN AUI connector



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CONFIGURING A MODEL 425t WORKSTATION Cont'd

Standard configurations for HP-UX and Domain/OS vary slightly:

HP-UX configurations all include an HP-IB (IEEE-488) bus connector, with cable. This is used for connection to a variety of Hewlett-Packard peripherals supported by HP-UX that share this bus standard. Most HP peripherals today are changing to a SCSI bus standard.

Domain/OS configurations include the Apollo Token Ring interface, used for networking. Many installations using Domain/OS have adapted the ATR as their networking standard, although this is changing as more customers move towards Ethernet LAN.

No additional I/O slots are available in the Model 425t.

The SCSI connector is for single-ended, SCSI-1 protocol devices. The connector is a 50-pin high density female connector with bail-lock and/or thumbscrew security. The SCSI bus in the model 425t requires external termination. That means that a terminator is required even when no external peripherals are attached to the bus. The proper external terminator for the workstation is shipped in all model 425t standard configurations. If external peripherals are attached to the SCSI bus, the last peripheral on the SCSI daisy chain requires a terminator, per the SCSI standard. The choice of terminator will depend on the peripheral's connector, and in most cases should be ordered separately.

Additional flexibility is provided by the RS-232C connector. This may be used as a single high speed serial interface, or split into three connectors. To convert the serial port, order the K2292 separately. This splits the 25 pins into three 9-pin connectors. One of these uses all 9 pins to achieve the same high speed performance as the standard interface, while the other two connectors use 7 of the available pins for lower speed transfers to devices such as line printers.

LAN Networking

Two separate Ethernet connectors are standard on the Model 425t, as with all Series 400 and 700 workstations. Unless otherwise specified the Thinnet connector is enabled. If you want to run Ethernet through Thicknet or any other media you may order the LAN Attachment Unit Interface (AUI) configuration option (#AL9). This instructs manufacturing to reset a jumper on the processor board to enable the AUI and disable the Thinnet connectors. The jumper may also be reset anytime at your site if desired.

Deskside Pedestal

The Model 425t is designed to be used on a desktop. Occasionally, customers prefer to use it deskside. This requires that the workstation be used vertically, not horizontally, and therefore a stand is necessary to keep it stable. This stand, or pedestal, is included in all Model 425t standard configurations.

Field-installed Model 425t Options

To enable customers to expand or upgrade their system over time, HP has made available a series of add-on products. These products can be installed in the field by either HP service engineers or customers. When ordering, be careful not to exceed the maximum configuration limits of the Model 425t. The add-on products are as follows:

<u>Product</u>	<u>Description</u>
98229B	8 MB ECC RAM set add-on
98229D	16 MB ECC RAM set add-on
A2075A	420 MB internal SCSI disk drive



CONFIGURING A MODEL 425t WORKSTATION Cont'd

MODEL 425t FLEXIBLE CONFIGURATION

The Model 425t may be ordered through a flexible configuration that allows any supported combination of features to be ordered. The process involves ordering a base System Processor Unit (SPU), then adding a series of options.

It is important to realize that not all features available in Model 425t standard configurations are available in the flexible configuration. The flexible configuration is being phased out of the Series 400 product line. Because of this several recently added features of the Model 425t have not been added to the flexible configuration option list.

The following discussion describes the process of using the flexible configuration to order a Model 425t. It only describes the ordering process. For an explanation of the features themselves, refer to the section "Configuring a Model 425t Workstation" in this configuration guide.

The workstation ordering process with the flexible configuration is best done sequentially. Start at the beginning (order the SPU), then proceed through each set of options. Choose an operating system, then the graphics subsystem, next the monitor, etc. The explanation below follows that process. Consider it a "verbal flowchart".

Once the workstation is ordered, a localization kit and other possible products may still be needed for a complete and fully functional system. Please see the beginning of this configuration guide for an overview of the considerations when ordering a workstation.

Step 1: Order SPU Product # **A1630E**

You should start the flexible configuration by ordering the base SPU using the product number above.

The SPU includes the workstation package with all of the following features:

- 25 MHz MC 68040 processor
- 8 MB Error Checking and Correcting (ECC) RAM
- 32-bit DIO-II graphics slot
- HP-HIL interface connector
- Domain keyboard connector
- RS-232C serial interface connector
- SCSI interface connector & terminator
- Parallel (Centronics) interface connector
- IEEE 802.3 Ethernet LAN interface with ThinLAN and BNC "T" connector
- IEEE 802.3 Ethernet AUI connector
- 2-user License to use HP-UX
- 2-user License to use Domain/OS

Step 2: Order Primary Operating System

MUST ORDER	Option #	Description
	AG1	HP-UX
	or AGK	Domain/OS

One operating system option must be ordered for each workstation. Although nothing is delivered as a result of ordering this option, it governs several later selections of options. From here through the rest of this explanation of the flexible configuration ordering process, separate columns are used marked "HP-UX" or "Domain/OS". Some options are only available with one of these operating systems. A "yes" in a column indicates that the option is available for that operating system.



CONFIGURING A MODEL 425t WORKSTATION Cont'd

All orders placed through the flexible configuration are edited by HP. The selection of operating system options is used to verify each other option to be sure the feature is supported. Therefore it is critical to indicate the operating system to be used through the options selection, and any orders without this option must be re-entered.

Step 3: Order Graphics

MUST ORDER ONE

Option #	Description	HP-UX	Domain/OS
AD7	Add Monochrome VRX Graphics	Yes	Yes
or AD8	Add Color VRX Graphics	Yes	Yes
or ADB	Add PVRX P2 Graphics	Yes	Yes
or ADC	Add PVRX P3 Graphics	No	Yes
or ADM	Add PVRX P3 Graphics with Personal Visualizer software	Yes	No

This orders the graphics subsystem to be used with the Model 425t. One and only one must be ordered. Orders without one of these options must be re-entered.

Step 4: Order Monitor

MAY ORDER ONE

Option #	Description	HP-UX	Domain/OS
ADG	19" Monochrome Note: #ADG may only be ordered with #AD7	Yes	Yes
or ADH	16" Color Note: #ADH may not be ordered with #AD7	Yes	Yes
or ADJ	19" Color Note: #ADJ may not be ordered with #AD7	Yes	Yes

It is not necessary to order a monitor, although in most cases one of the monitor options should be selected. Notice that there are additional restrictions on the combination of graphics subsystem and monitor selection.

Step 5: Order Memory

MAY ORDER

Option #	Description	HP-UX	Domain/OS
AN4	Add 8 MB Note: Up to three total #AN4 plus #AN8 may be ordered	Yes	Yes
AN5	Convert standard 8 MB to 16 MB Note: Only one #AN5 may be ordered	Yes	Yes
AN8	Add 16 MB Note: Up to three total #AN4 plus #AN8 may be ordered	Yes	Yes



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CONFIGURING A MODEL 425t WORKSTATION Cont'd

The base SPU includes 8 MB of RAM. You may add to this by ordering #AN4 and/or #AN8 in any quantity and combination up to a total of three. You may also replace the standard 8 MB with 16 MB using #AN5. More RAM can still be added as before up to a total of three #AN4 plus #AN8. For more details about RAM see the discussion of adding RAM in the section of this guide titled "Configuring a Model 425t Workstation".

Step 6: Order Additional I/O

MAY CHOOSE ANY

Option #	Description	HP-UX	Domain/OS
AL5	Add IEEE-488 (HP-IB) with cable	Yes	No
AL3	Add Apollo Token Ring card	No	Yes
AL9	Select LAN AUI configuration	Yes	Yes

Step 7: Order Localization Kit and Other Additional Products

At this point the flexible configuration ordering process is complete. A localization kit must be ordered, and you will probably want to order other products as well. See the section "Configuring a Workstation" at the beginning of this configuration guide for a checklist of other products you may need.



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CONFIGURING A MODEL 425t WORKSTATION Cont'd

Model 425t Configuration Constraints

<u>Total amount of RAM</u>	64MB	<u>Total No. of SCSI buses</u>	1
		• One internal single-ended SCSI bus	
<u>Internal SCSI bus Configuration Constraints</u>		<u>HP-UX</u>	<u>Domain/OS</u>
• Max no. SCSI devices		7	7
Two internal 3 1/2" drives (Limited to 2 hard drives)		420MB disk	420MB disk
• Max no. disk drives (internal + external)		7	7
• Max no. CD-ROM drives		7	6
• Max no. DDS (4MM DAT) drives		3	2
• Max no. 9-track tape drives		HP-IB only	1
• Max no. 650MB magneto-optical drives		7	1
• Max no. magneto-optical autochangers		2*	1
• Max no. 3.5 floppy drives		N/A	N/A
• Max no. 8mm tape drives		N/A	2
• Max no. 1/4" QIC tape drive		N/A	1
• Max no. 1.2MB 5.25" floppy drive		N/A	1
*Note: The Magneto-optical Autochangers use more than one SCSI drive address, which must be accounted for in the total of 7 allowed on a single SCSI bus.			
<u>Cable Length Constraints</u> (Internal and External)			
• Internal single-ended SCSI bus max total aggregate lengths		6 meters	



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CONFIGURING A MODEL 425s WORKSTATION

The Model 425s is available in both standard configurations and a flexible configuration. The flexible configuration allows purchase of combinations of features that are not available through the standard configurations, but is more difficult to order. In addition, several recently introduced features of the 425s are not available through the flexible configuration. An explanation of ordering through the flexible configuration can be found at the end of this section of the configuration guide.

The standard configurations are bundled, pre-defined packages that include at least 16 MB of RAM, graphics interface and monitor (except server configurations), and an internal disk drive. All of the standard configurations have options to request factory integration of additional RAM, disks, and other internal features.

RAM and peripherals may also be added to the 425s at any time through upgrade kits that are customer installable.

A localization kit should always be ordered with any 425s workstation, but is not necessary with servers.

Operating System Versions

The Model 425s, like all Series 400 workstations and servers, offers a choice of either HP-UX or Domain/OS as the operating system. Since the Model 425s's introduction, both operating systems have undergone revisions to add new features, peripheral support, etc. Customers may choose which version to use with their 425s, based on issues such as application support, site standards, testing, etc. Usually the current version and at least one prior version of each operating system may be ordered.

HP-UX 7.05 or Domain/OS SR10.3.4 are the minimum operating system versions required for the Model 425s. Later versions include HP-UX 8.0, Domain/OS SR10.3.5, and Domain/OS SR10.4. These are fully compatible with the prior versions, plus add support for new features. The following internal features of the 425s require the operating system version shown. It is critical to order the appropriate operating system version for the system ordered.

	<u>HP-UX</u>	<u>Domain/OS</u>
GRX Graphics	8.0	SR10.3.5
CRX Graphics	8.0	SR10.3.5
1.3 GB Disk Drive	8.0	SR10.3.5
2 GB DDS Format Tape Drive	8.0	SR10.3.5

See the Peripheral Support Matrix at the end of this configuration guide for operating system versions required for external peripherals.

Two-user licenses for both operating systems are included with every workstation shipped. Both are valid for the current and any previous version of the operating system. A new license may be required only when upgrading the operating system version you are using. Additional licenses may be required for any additional software purchased, but these are typically included with the software.

No software is included with the workstation, except HP-UX Run-Time Instant Ignition as described below. Even with Instant Ignition, you will usually want a copy of the operating system you are using available for backup at least. This price guide includes full listings of the system software products that are available, including applicable versions of the operating system. A selection of distribution media is also available. CD ROM and DAT tape are used to distribute HP-UX, while Domain/OS is distributed on DAT or 9-track tape.

Many workstations today are run "diskless", meaning that the operating system is maintained on a server and is loaded into workstations over the network when they are turned on, or "booted". In this case, every workstation does not need a copy of the system software available on the server.

CONFIGURING A MODEL 425s WORKSTATION Cont'd

All Model 425s HP-UX standard configurations except servers include HP-UX Instant Ignition. The version of Instant Ignition shipped on any particular standard configuration depends on the minimum revision of HP-UX required for that configuration. The simplest distinction is that any configuration with a 660 MB internal disk uses HP-UX 7.05, and any configuration with a 1.3 GB disk uses HP-UX 8.0 Instant Ignition.

The HP-UX 7.05 Instant Ignition includes the AXE module of the operating system, along with HP VUE 2.0. HP-UX 8.0 Instant Ignition is very similar, providing the Run-Time module of HP-UX 8.0 with HP VUE 2.0. Both are pre-loaded on the disk. With the "Instant Ignition" package, you won't have to load the operating system from a server or other media before using the system. It will boot running HP-UX in the very friendly HP VUE environment. Ordering a copy of the operating system on separate media is still a good idea. This will provide backup in the event of disk problems.

"Getting Started" documentation is included with the workstation on all Domain/OS configurations and with HP-UX configurations that include the 660 MB disk drive. The Model 425s standard configurations that use the 1.3 GB disk do not include this documentation. Instead it ships with the localization kit. This documentation describes the fundamentals of using your Model 425s and its system software. More in-depth documentation is available separately. You may order it either as traditional hard-copy manuals, or on CD ROM for on-line access.

Graphics

Most Model 425s standard configurations include a selection from among several types of graphics systems. The remainder do not include any graphics logic or monitor, and are designed to be used as servers. Typically a terminal is purchased separately to interface with a server.

The graphics systems available in Model 425s Standard Configurations are:

Monochrome VRX	Monochrome, 2D, 1280 X 1024
Color VRX	Color, 2D, 1280 X 1024
Grayscale GRX	Grayscale, 2D, 1280 X 1024
Color CRX	Color, 2D, 1280 X 1024
Personal VRX (P3)	Color, 3D, 1280 X 1024
TurboVRX (T2)	Color, High Performance 3D, 1280 X 1024

The striking fact about this graphics selection is the apparent redundancy of the 2D systems. The VRX graphics and GRX/CRX appear identical. However, the GRX and CRX graphics were introduced several months after the original Model 425s systems were offered. Both are much higher performance than their VRX counterparts. In addition, the GRX is grayscale with 256 shades available, while Monochrome VRX is black and white only.

On the other hand, GRX and CRX graphics require later versions of Series 400 operating systems:

<u>VRX</u>	<u>GRX/CRX</u>
HP-UX 7.05	HP-UX 8.0
Domain/OS SR10.3.4	Domain/OS SR10.3.5

Customers that have not yet fully adapted the later versions still have high quality, if lower performance, 2D graphics available through the VRX selections. Personal VRX and TurboVRX are the 3D graphics subsystem available on the Model 425s, and offer significantly different sets of features. All HP-UX 3D systems also include "Personal Visualizer" software on tape (9144A format). The "Personal Visualizer" software is not supported on Domain/OS systems.

CONFIGURING A MODEL 425s WORKSTATION Cont'd

Adding more RAM

The maximum amount of RAM memory possible in a Model 425s is 128 MB. RAM for Series 400 workstations is always purchased and added as pairs of boards, and a 425s contains four pairs of RAM slots. The increments of RAM possible in a 425s are 8 MB (1 pair of 4 MB boards), 16 MB (pair of 8 MB), and 32 MB (pair of 16 MB). Hence the limit to 425s RAM: 4 pairs of RAM slots available, and 32 MB maximum per pair. Any possible combination of the available RAM pairs is supported.

Because the number of RAM slot pairs is limited, it is important to make good use of the available slots. Otherwise adding RAM in the future could be difficult due to a shortage of unused slots. All factory installed RAM uses the minimum possible slots:

16 MB standard configuration = 2 X 8 MB = 1 pair of slots consumed
#ANC (add 16 MB for total of 32 MB) = 2 X 16 MB = 1 pair of slots consumed

32 MB standard configuration = 2 X 16 MB = 1 pair of slots consumed
#ANC (add 32 MB for total of 64 MB) = 4 X 16 MB = 2 pairs of slots consumed

Upgrade kits installable at your site are also available to add RAM if your needs grow in the future. RAM upgrades are available in 8, 16, and 32 MB increments, and require a pair of slots each.

The issue of RAM slot usage is particularly important if an upgrade to PA-RISC is anticipated for the 425s in the future. Your 425s RAM may be moved to the PA-RISC processor, but maximum capacity should be considered. The high performance of PA-RISC usually implies more, and more powerful, applications. These often require additional RAM. You should purchase RAM today to consume as few pairs of slots as possible in order to preserve capacity for future expansion.

Adding Internal Storage

The Model 425s has three bays available for internal mass storage. Two bays are configured from the factory for 5.25-inch full height devices, and the third (top) bay is configured for two 5.25-inch half height devices. Industry standard 3.5-inch devices may also be used in the half height bays. It is possible to reconfigure the third bay for another full height device, but this is only possible with field installed add-on option products.

One disk is included, factory installed, in all of the standard configurations. Options may be ordered to some configurations with 660 MB disks to either add a second 660 MB disk, or convert the standard disk to a 1.3 GB disk. All disk drives supported in the Model 425s require a full height bay. The first disk will always be installed in the bottom bay, and a second disk will be located in the middle bay.

The 660 MB disk is supported in any Model 425s. However, the 1.3 GB disk requires minimum revs of HP-UX 8.0 or Domain/OS SR10.3.5.

Further internal peripheral options are available. Note that availability of these devices varies by operating system. The optional devices include:

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CONFIGURING A MODEL 425s WORKSTATION Cont'd

The SCSI connector is for single-ended, SCSI-1 protocol devices. The connector is a 50-pin high density female connector with bail-lock and/or thumbscrew security. The SCSI bus in the Model 425s requires external termination. That means that a terminator is required even when no external peripherals are attached to the bus. The proper external terminator for the workstation is shipped in all 425s standard configurations. If external peripherals are attached to the SCSI bus, the last peripheral on the daisychain requires a terminator, per the SCSI standard. The choice of terminator will depend on the peripheral's connector, and in most cases should be ordered separately.

Standard Configuration Option

Size

Availability

1.3 GB DDS Format Tape Drive **
QIC Format Tape Drive
CD ROM Drive

Full Height
Half Height
Half Height

HP-UX (7.05) or Domain/OS (SR10.3.5)
Domain/OS only (all revisions)
HP-UX only (all revisions)

** While this device is still available as an option in some Model 425s standard configurations, a new DDS-format DAT tape drive is now offered as a field installable add-on option (A2274A #AHQ). This drive is higher capacity and less expensive than the option offered in the Model 425s standard configurations. Minimum operating system versions for the A2274A are HP-UX 8.0 or Domain/OS SR10.3.5.

A variety of internal peripherals are available as upgrade kits installable at your site. If your requirements change over time the upgrade kits may be used for expansion. Of course, a bay of the required size must be available in the 425s. The peripherals sold as field installable add-on options, with applicable restrictions, are:

Internal Peripheral

Size

Operating System Support HP-UX Domain/OS

660 MB Disk Drive	Full Height	7.05	SR10.3.4
1.3 GB Disk Drive	Full Height	8.0	SR10.3.5
1.3 GB DDS Format Tape Drive **	Full Height	7.05	SR10.3.4
1/4-inch QIC Format Tape Drive	Half Height	N/A	SR10.3.4
2 GB DDS Format Tape Drive **	Half Height	8.0	SR10.3.5
CD ROM Drive	Half Height	7.05	SR10.3.5

** See note above (under standard configuration options) on DDS format drives

Cache Memory

All Model 425s standard configurations have an option to add cache memory. Designed to provide higher CPU performance in many applications, the cache is an additional 128 Kilobytes of high speed memory. Since the cache is a "daughter-board" installed at the factory, it can only be ordered as a standard configuration option. It is not available as a field installed add-on option.

I/O Features

The Model 425s comes with the following I/O features in all configurations:

1 - SCSI connector with terminator	1 - Microphone audio input connector
1 - RS-232C connector (25-pin)	1 - Audio output connector
1 - Parallel (Centronics compatible) connector	1 - Thinnet BNC "T" connector
1 - HP-HIL connector	1 - LAN AUI connector
1 - Domain/OS keyboard connector	



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CONFIGURING A MODEL 425s WORKSTATION Cont'd

Standard configurations for HP-UX and Domain/OS vary slightly from the list above:

HP-UX configurations all include an HP-IB (IEEE-488) bus connector, with cable. The bus is built in to the workstation and does not use an I/O slot. The HP-IB is used for connection to a variety of Hewlett-Packard peripherals supported by HP-UX that share this bus standard. Most HP peripherals today are changing to a SCSI bus standard.

Domain/OS configurations include the Apollo Token Ring interface, used for networking. The interface uses an EISA bus slot. Many installations using Domain/OS have adapted the ATR as their networking standard, although this is changing as more customers move towards Ethernet LAN.

Additional flexibility is provided by the RS-232C connector. This may be used as a single high speed serial interface, or split into three connectors. To convert the serial port, order the K2292 separately. This splits the 25 pins into three 9-pin connectors. One of these uses all 9 pins to achieve the same high speed performance as the standard interface, while the other two connectors use 7 of the available pins for lower speed transfers to devices such as line printers.

One of the major benefits to the Model 425s is its capacity for I/O expansion. Most standard configurations include an internal expander. Following is a brief description of the expanders offered:

EISA The EISA expander provides 4 slots using this high performance interface standard. The slots may be used by any of the growing family of HP and third-party EISA cards, so long as the appropriate software is included with the cards. EISA is a superset of the ISA standard, meaning that all ISA cards used in Domain/OS systems will work in a Model 425s with EISA. EISA is supported by HP-UX 7.05 and later versions, or Domain/OS SR10.3.4 and later. All Model 425s Domain/OS standard configurations include the EISA internal expander. The Apollo Token Ring card shipped with these workstations consumes one of the EISA slots.

DIO-II Three DIO-II slots are included with this expander. DIO-II is a 32-bit interface used by several generations of HP-UX workstations, and is only supported by HP-UX. Two of the three slots in the expander may be converted to the 16-bit DIO interface easily by using a converter. One converter is included in all standard configurations that include the DIO-II expander. A second may be ordered with the number A1401A. A supported card from the selection of DIO-II and DIO cards offered by HP may be used in the Model 425s. The two graphics card slots in every Model 425s are also DIO-II. However, they are NOT supported for use by I/O cards, nor does the DIO-II to DIO converter work in those slots. They are only supported for use by the VRX family of graphics cards.

If the model 425s may be upgraded to PA RISC processor in the future, DIO-II should be avoided. This bus is not supported on PA RISC processors. A system purchased with either no internal I/O expander, or with EISA expander, will be easily upgraded.

An external VME expander is supported with HP-UX (product number A1467A). Many VME cards from third-party companies may be used in the eight VME (6U) slots provided by this expander.

LAN Networking

Two separate Ethernet connectors are standard on the Model 425s, as with all Series 400 and 700 workstations. Unless otherwise specified the Thinnnet connector is enabled. If you want to run Ethernet through Thicknet or any other media you may order the LAN Attachment Unit Interface (AUI) configuration option (#AL9). This instructs manufacturing to reset a jumper on the processor board to enable the AUI and disable the Thinnnet connectors. The jumper may also be reset anytime at your site if desired.

CONFIGURING A MODEL 425s WORKSTATION Cont'd**Field-installed Model 425s Options**

To enable customers to expand or upgrade their system over time, HP has made available a series of add-on products. These products can be installed in the field by either HP service engineers or customers. When ordering, be careful not to exceed the maximum configuration limits of the Model 425s. The add-on products are as follows:

<u>Product/ Option</u>	<u>Field Installed Add-on Option</u>	<u>Operating System Support</u>	
		<u>HP-UX</u>	<u>Domain/OS</u>
98229B	8 MB ECC RAM set add-on	7.05	SR10.3.4
98229D	16 MB ECC RAM set add-on	7.05	SR10.3.4
98229E	32 MB ECC RAM set add-on	7.05	SR10.3.4
A1443A	660 MB Internal Disk Drive	7.05	N/A
A1444A	660 MB Internal Disk Drive	N/A	SR10.3.4
A2076A	1.3 GB Internal Disk Drive	8.0	SR10.3.5
A1447A	1.3 GB DDS Format 4mm Tape Drive **	7.05	SR10.3.4
A2274A #AHQ	2 GB DDS Format 4mm Tape Drive **	8.0	SR10.3.5
A1449A	1/4-inch QIC Format Tape Drive	N/A	SR10.3.4
A1448A	CD ROM Drive	7.05	SR10.3.5

** See note under standard configuration options on DDS format drives

MODEL 425s FLEXIBLE CONFIGURATION

The Model 425s may be ordered through a flexible configuration that allows any supported combination of features to be ordered. The process involves ordering a base System Processor Unit (SPU), then adding a series of options.

It is important to realize that not all features available in Model 425s standard configurations are available in the flexible configuration. The flexible configuration is being phased out of the Series 400 product line. Because of this several recently added features of the Model 425s have not been added to the flexible configuration option list.

The following discussion describes the process of using the flexible configuration to order a Model 425s. It only describes the ordering process. For an explanation of the features themselves, refer to the section "Configuring a Model 425s Workstation" in this configuration guide.

The workstation ordering process with the flexible configuration is best done sequentially. Start at the beginning (order the SPU), then proceed through each set of options. Choose an operating system, then the graphics subsystem, next the monitor, etc. The explanation below follows that process. Consider it a "verbal flowchart".

Once the workstation is ordered, a localization kit and other possible products may still be needed for a complete and fully functional system. Please see the beginning of this configuration guide for an overview of the considerations when ordering a workstation.



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CONFIGURING A MODEL 425s WORKSTATION Cont'd

Step 1: Order SPU Product # A1421B

You should start the flexible configuration by ordering the base SPU using the product number above.

The SPU includes the workstation package with all of the following features:

- 25 MHz MC 68040 processor
- 8 MB Error Checking and Correcting (ECC) RAM
- 2 32-bit DIO-II graphics slots
- HP-HIL interface connector
- Domain keyboard connector
- RS-232C serial interface connector
- SCSI interface connector
- Parallel (Centronics) interface connector
- IEEE 802.3 Ethernet LAN interface with ThinLAN and BNC "T" connector
- IEEE 802.3 Ethernet AUI connector
- 2-user License to use HP-UX
- 2-user License to use Domain/OS

Step 2: Order Primary Operating System

MUST ORDER	Option #	Description
	AG1	HP-UX
	or AGK	Domain/OS

One operating system option must be ordered for each workstation. Although nothing is delivered as a result of ordering this option, it governs several later selections of options. From here through the rest of this explanation of the flexible configuration ordering process, separate columns are used marked "HP-UX" or "Domain/OS". Some options are only available with one of these operating systems. A "yes" in a column indicates that the option is available for that operating system.

All orders placed through the flexible configuration are edited by HP. The selection of operating system options is used to verify each other option to be sure the feature is supported. Therefore it is critical to indicate the operating system to be used through the options selection, and any orders without this option must be re-entered.

Step 3: Order Graphics

MUST ORDER ONE

Option #	Description	HP-UX	Domain/OS
AD7	Add Monochrome VRX Graphics	Yes	Yes
or AD8	Add Color VRX Graphics	Yes	Yes
or ADB	Add PVRX P2 Graphics	Yes	Yes
or ADC	Add PVRX P3 Graphics	No	Yes
or ADM	Add PVRX P3 Graphics with	Yes	No
or ADD	Add TVRX T1 Graphics with Personal Visualizer software	Yes	No
or ADE	Add TVRX T2 Graphics with Personal Visualizer software	Yes	No
or ADF	Add TVRX T3 Graphics with Personal Visualizer software	Yes	No

This orders the graphics subsystem to be used with the Model 425s. One and only one must be ordered. Orders without one of these options must be re-entered.



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CONFIGURING A MODEL 425s WORKSTATION Cont'd

Step 4: Order Monitor

MAY ORDER ONE

Option #	Description	HP-UX	Domain/OS
ADG	19" Monochrome Note: #ADG may only be ordered with #AD7	Yes	Yes
or ADH	16" Color Note: #ADH may only be ordered with #AD8, #ADB, or #ADM	Yes	Yes
or ADJ	19" Color Note: #ADJ may not be ordered with #AD7	Yes	Yes

It is not necessary to order a monitor, although in most cases one of the monitor options should be selected. Notice that there are additional restrictions on the combination of graphics subsystem and monitor selection.

Step 5: Order Memory

MAY ORDER

Option #	Description	HP-UX	Domain/OS
AN1	Convert standard 8 MB to 32 MB Note: Only one #AN1 may be ordered	Yes	Yes
AN4	Add 8 MB Note: Up to three total #AN4 plus #AN6 may be ordered	Yes	Yes
AN6	Add 32 MB Note: Up to three total #AN4 plus #AN6 may be ordered	Yes	Yes

The base SPU includes 8 MB of RAM. You may add to this by ordering #AN4 and/or #AN6 in any quantity and combination up to a total of three. You may also replace the standard 8 MB with 32 MB using #AN1. More RAM can still be added as before up to a total of three #AN4 plus #AN6. For more details about RAM see the discussion of adding RAM in the section of this guide titled "Configuring a Model 425s Workstation".

Step 6: Order Cache Memory

MAY ORDER

Option #	Description	HP-UX	Domain/OS
AN9	Add 128 KBytes of cache memory	Yes	Yes



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CONFIGURING A MODEL 425s WORKSTATION Cont'd

Step 7: Order Full Height Internal Mass Storage

MAY ORDER ONE OF EACH, MAXIMUM OF TWO

Option #	Description	HP-UX	Domain/OS
AM4	Add First 660 MB Disk Drive Note: #AM4 must be ordered if HP-UX 7.05 Instant Ignition #0D7 will be ordered (see Step 11)	Yes	No
AM5	Add First 660 MB Disk Drive	No	Yes
AM6	Add Second 660 MB Disk Drive	Yes	Yes
AM7	Add 1.3 GB DDS Format Tape Drive	Yes	Yes

Two bays are available in the Model 425s for full height mass storage. Combinations possible are no disk, one disk, one DDS format tape drive, two disks, or one each disk and DDS format tape drive. Note too that the option choice for the first disk will depend on the operating system option selected.

Step 8: Order Half Height Internal Mass Storage

MAY CHOOSE

Option #	Description	HP-UX	Domain/OS
AM8	Add 600 MB CD ROM Drive Note: Option AM8 may be selected for use with Domain/OS, but SR10.3.5 is required.	Yes	Yes
AM9	Add 1/4" QIC format tape drive	No	Yes

Two bays are available for half height internal mass storage.

Step 9: Order Internal I/O Expansion

MAY CHOOSE ONE

Option #	Description	HP-UX	Domain/OS
AL0	Add 3 slot DIO-II expander	Yes	No
AL2	Add 4 slot EISA expander	Yes	Yes

Domain/OS customers wishing to order the Apollo Token Ring card for networking must order #AL2.

Step 10: Order Additional I/O

MAY CHOOSE ANY

Option #	Description	HP-UX	Domain/OS
AL5	Add IEEE-488 (HP-IB) with cable	Yes	No
AL3	Add Apollo Token Ring card Note: #AL2 must be ordered also if #AL3 is ordered	No	Yes
AL9	Select LAN AUI configuration	Yes	Yes



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CONFIGURING A MODEL 425s WORKSTATION Cont'd

Step 11: Order Disk Software Pre-load

MAY CHOOSE

Option #	Description	HP-UX	Domain/OS
0D7	HP-UX 7.05 Instant Ignition Loaded on Disk Note: #0D7 requires that #AM4 also be ordered	Yes	No

Step 12: Order Localization Kit and Other Additional Products

At this point the flexible configuration ordering process is complete. A localization kit must be ordered, and you will probably want to order other products as well. See the section "Configuring a Workstation" at the beginning of this configuration guide for a checklist of other products you may need.



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CONFIGURING A MODEL 425s WORKSTATION Cont'd

Model 425s Configuration Constraints

<u>Total amount of RAM</u> 128MB		<u>Total No. of SCSI buses</u> 1	
		One internal single-ended SCSI bus	
		With DIO-II Expander: two additional DIO SCSI cards	
		With EISA Expander: none additional	
<u>Internal SCSI bus Configuration Constraints</u>		<u>HP-UX</u>	<u>Domain/OS</u>
Max no. SCSI devices		21	7
Three internal 5.25" peripherals bays, or 2 Internal 5.25" bays + 2 Internal 3 1/2" bays (Limited to 2 harddrives)			
5.25" devices		660MB disk 1.3GB disk 1.3GB DDS	660MB disk 1.3GB disk 1.3GB DDS
3.5" devices		CD-ROM 2GB DDS	CD-ROM 2GB DDS 1/4" QIC tape
Max no. disk drives (internal + external)		21	7
Max no. CD-ROM drives		21	6
Max no. DDS (4MM DAT) drives		3	2
Max no. 9-track tape drives		HP-IB only	1
Max no. 650MB magneto-optical drives		21	1
Max no. magneto-optical autochangers		6*	1
Max no. 3.5 floppy drives		N/A	N/A
Max no. 8mm tape drives		N/A	2
Max no. 1/4" QIC tape drive		N/A	1
Max no. 1.2MB 5.25" floppy drive		N/A	1
*Note: The Magneto-optical Auto changers use more than one SCSI drive address, which must be accounted for in the total of 7 allowed on a single SCSI bus.			
<u>Cable Length Constraints</u>		(Internal and External)	
Internal single-ended SCSI bus max total aggregate lengths		6 meters	



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CONFIGURING A MODEL 433s WORKSTATION

The Model 433s is available in a variety of standard configurations. The standard configurations are bundled, pre-defined packages that include at least 16 MB of RAM, graphics interface and monitor (except server configurations), and a 1.3 GB internal disk drive. All standard configurations have options to request factory integration of additional RAM, disk, and other internal features.

RAM and peripherals may also be added to the 433s at any time through upgrade kits that are customer installable.

A localization kit should always be ordered with any 433s workstation, but is not necessary with servers.

Operating System Versions

The Model 433s, like all Series 400 workstations and servers, offers a choice of either HP-UX or Domain/OS as the operating system. HP-UX 8.0 or Domain/OS SR10.3.5 are the minimum operating system versions required for the Model 433s standard configurations.

See the Peripheral Support Matrix at the end of this configuration guide for operating system versions required for external peripherals.

Two-user licenses for both operating systems are included with every workstation shipped. Both are valid for the current and any previous version of the operating system. A new license may be required only when upgrading the operating system version you are using. Additional licenses may be required for any additional software purchased, but these are typically included with the software.

No software is included with the workstation, except HP-UX Run-Time Instant Ignition as described below. Even with Instant Ignition, you will usually want a copy of the operating system you are using available for backup at least. This price guide includes full listings of the system software products that are available, including applicable versions of the operating system. A selection of distribution media is also available. CD ROM and DAT tape are used to distribute HP-UX, while Domain/OS is distributed on DAT or 9-track tape.

Many workstations today are run "diskless", meaning that the operating system is maintained on a server and is loaded into workstations over the network when they are turned on (booted). In this case, every workstation does not need a copy of the system software available on the server.

All Model 433s HP-UX standard configurations except servers include HP-UX 8.0 Run Time Instant Ignition. This provides the Run-Time module of HP-UX 8.0 along with HP VUE 2.0, pre-loaded on disk. With the "Instant Ignition" package, you won't have to load the operating system from a server or other media before using the system. It will boot running HP-UX in the very friendly HP VUE environment. Ordering a copy of the operating system on separate media is still a good idea. This will provide backup in the event of disk problems.

"Getting Started" documentation is included with the workstation on all Domain/OS configurations, and with the localization kit for HP-UX configurations. This documentation describes the fundamentals of using your Model 433s and its system software. More in-depth documentation is available separately. You may order it either as traditional hard-copy manuals, or on CD ROM for on-line access.



HP Apollo 9000 Series 400

CONFIGURING A MODEL 433s WORKSTATION Cont'd

Graphics

433s standard configurations include a selection of grayscale or color 2D graphics, or servers with no graphics logic or monitor. Typically a terminal is purchased separately to interface with a server.

The graphics systems available in Model 433s Standard Configurations are:

Grayscale GRX	Grayscale, 2D, 1280 X 1024
Color CRX	Color, 2D, 1280 X 1024

The GRX provides grayscale graphics with 256 shades available, while the CRX offers a selection of 256 colors from a palette of over 16.7 million.

Adding more RAM

The maximum amount of RAM memory possible in a Model 433s is 128 MB. RAM for Series 400 workstations is always purchased and added as pairs of boards, and a 433s contains four pairs of RAM slots. The increments of RAM possible in a 433s are 8 MB (1 pair of 4 MB boards), 16 MB (pair of 8 MB), and 32 MB (pair of 16 MB). Hence the limit to 433s RAM: 4 pairs of RAM slots available, and 32 MB maximum per pair. Any possible combination of the available RAM pairs is supported.

Because the number of RAM slot pairs is limited, it is important to make good use of the available slots. Otherwise adding RAM in the future could be difficult due to a shortage of unused slots. All factory installed RAM uses the minimum possible slots:

16 MB standard configuration = 2 X 8 MB = 1 pair of slots consumed
#ANC (add 16 MB for total of 32 MB) = 2 X 16 MB = 1 pair of slots consumed

Upgrade kits installable at your site are also available to add RAM if your needs grow in the future. RAM upgrades are available in 8, 16, and 32 MB increments, and require a pair of slots each.

The issue of RAM slot usage is particularly important if an upgrade to PA-RISC is anticipated for the 433s in the future. Your 433s RAM may be moved to the PA-RISC processor, but maximum capacity should be considered. The high performance of PA-RISC usually implies more, and more powerful, applications. These often require additional RAM. You should purchase RAM today to consume as few pairs of slots as possible in order to preserve capacity for future expansion.

Adding Internal Storage

The Model 433s has three bays available for internal mass storage. Two bays are configured from the factory for 5.25-inch full height devices, and the third (top) bay is configured for two 5.25-inch half height devices. Industry standard 3.5-inch devices may also be used in the half height bays. It is possible to re-configure the third bay for another full height device, but this is only possible with field installed add-on option products.

One 1.3 GB disk is included, factory installed, in all of the standard configurations. Options may be ordered to server configurations to add a second 1.3 GB disk. All disk drives supported in the Model 433s require a full height bay. The first disk will always be installed in the bottom bay, and a second disk will be located in the middle bay.



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CONFIGURING A MODEL 433s WORKSTATION Cont'd

Further internal peripheral options are available. Note that availability of these devices varies by operating system. The optional devices include:

<u>Standard Configuration Option</u>	<u>Size</u>	<u>Availability</u>
2 GB DDS Format 4mm Tape Drive	Full Height	HP-UX or Domain/OS
1/4" QIC Format Tape Drive	Half Height	Domain/OS only

A variety of internal peripherals are available as upgrade kits installable at your site. If your requirements change over time the upgrade kits may be used for expansion. Of course, a bay of the required size must be available in the 433s. The peripherals sold as field installable add-on options, with applicable restrictions, are:

<u>Internal Peripheral</u>	<u>Size</u>	<u>Operating System Support</u>	
		<u>HP-UX</u>	<u>Domain/OS</u>
660 MB Disk Drive	Full Height	8.0	SR10.3.5
1.3 GB Disk Drive	Full Height	8.0	SR10.3.5
1.3 GB DDS Format 4mm Tape Drive **	Full Height	8.0	SR10.3.5
1/4-inch QIC Format Tape Drive	Half Height	N/A	SR10.3.5
2 GB DDS Format 4mm Tape Drive	Half Height	8.0	SR10.3.5
CD ROM Drive	Half Height	8.0	SR10.3.5

** While this device is still available as a field installable add-on option for the Model 433s, a newer DDS-format DAT tape drive is offered (2 GB). This drive is higher capacity and less expensive than the 1.3 GB drive.

Cache Memory

All Model 433s standard configurations have an option to add cache memory. Designed to provide higher CPU performance in many applications, the cache is an additional 128 Kilobytes of high speed memory. Since the cache is a "daughter-board" installed at the factory, it can only be ordered as a standard configuration option. It is not available as a field installed add-on option.

I/O Features

The Model 433s comes with the following I/O features in all configurations:

1 - SCSI connector (with terminator)	1 - Microphone audio input connector
1 - RS-232C connector (25-pin)	1 - Audio output connector
1 - Parallel (Centronics compatible) connector	1 - Thinnet BNC "T" connector
1 - HP-HIL connector	1 - LAN AUI connector
1 - Domain/OS keyboard connector	

Standard configurations for HP-UX and Domain/OS vary slightly from the list above:

HP-UX configurations all include an HP-IB (IEEE-488) bus connector, with cable. The bus is built in to the workstation and does not use an I/O slot. The HP-IB is used for connection to a variety of Hewlett-Packard peripherals supported by HP-UX that share this bus standard. Most HP peripherals today are changing to a SCSI bus standard.

Domain/OS configurations include the Apollo Token Ring interface, used for networking. The interface uses an EISA bus slot. Many installations using Domain/OS have adapted the ATR as their networking standard, although this is changing as more customers move towards Ethernet LAN.



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CONFIGURING A MODEL 433s WORKSTATION Cont'd

The SCSI connector is for single-ended, SCSI-1 protocol devices. The connector is a 50-pin high density female connector with bail-lock and/or thumbscrew security. The SCSI bus in the Model 433s requires external termination. That means that a terminator is required even when no external peripherals are attached to the bus. The proper external terminator for the workstation is shipped in all 433s standard configurations. If external peripherals are attached to the SCSI bus, the last peripheral on the daisy chain requires a terminator, per the SCSI standard. The choice of terminator will depend on the peripheral's connector, and in most cases should be ordered separately.

Additional flexibility is provided by the RS-232C connector. This may be used as a single high speed serial interface, or split into three connectors. To convert the serial port, order the K2292 separately. This splits the 25 pins into three 9-pin connectors. One of these uses all 9 pins to achieve the same high speed performance as the standard interface, while the other two connectors use 7 of the available pins for lower speed transfers to devices such as line printers.

One of the major benefits to the Model 433s is its capacity for I/O expansion. Most standard configurations include an internal expander. Following is a brief description of the expanders offered:

EISA The EISA expander provides 4 slots using this high performance interface standard. The slots may be used by any of the growing family of HP and third-party EISA cards, so long as the appropriate software is included with the cards. EISA is a superset of the ISA standard, meaning that all ISA cards used in Domain/OS systems will work in a Model 433s with EISA. EISA is supported by HP-UX 7.05 and later versions, or Domain/OS SR10.3.4 and later. All Model 433s Domain/OS standard configurations include the EISA internal expander. The Apollo Token Ring card shipped with these workstations consumes one of the EISA slots.

DIO-II Three DIO-II slots are included with this expander. DIO-II is a 32-bit interface used by several generations of HP-UX workstations, and is only supported by HP-UX. Two of the three slots in the expander may be converted to the 16-bit DIO interface easily by using a converter. One converter is included in all standard configurations that include the DIO-II expander. A second may be ordered with the number A1401A. Any supported card from the selection of DIO-II and DIO cards offered by HP may be used in the Model 433s. The two graphics card slots in every Model 433s are also DIO-II. However, they are NOT supported for use by I/O cards, nor does the DIO-II to DIO converter work in those slots.

If the model 433s may be upgraded to PA RISC processor in the future, DIO-II should be avoided. This bus is not supported on PA RISC processors. A system purchased with either no internal I/O expander, or with EISA expander, will be easily upgraded.

An external VME expander is supported with HP-UX (product number A1467A). Many VME cards from third-party companies may be used in the eight VME (6U) slots provided by this expander.

LAN Networking

Two separate Ethernet connectors are standard on the Model 433s, as with all Series 400 and 700 workstations. Unless otherwise specified the Thinnnet connector is enabled. If you want to run Ethernet through Thicknet or any other media you may order the LAN Attachment Unit Interface (AUI) configuration option (#AL9). This instructs manufacturing to reset a jumper on the processor board to enable the AUI and disable the Thinnnet connectors. The jumper may also be reset anytime at your site if desired.

Field-installed Model 433s Options

To enable customers to expand or upgrade their system over time, HP has made available a series of add-on products. These products can be installed in the field by either HP service engineers or customers. When ordering, be careful not to exceed the maximum configuration limits of the Model 433s. The add-on products are as follows:



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CONFIGURING A MODEL 433s WORKSTATION Cont'd

<u>Product/ Option</u>	<u>Field Installed Add-on Option</u>	<u>Operating System Support</u>	
		<u>HP-UX</u>	<u>Domain/OS</u>
98229B	8 MB ECC RAM set add-on	7.05	SR10.3.4
98229D	16 MB ECC RAM set add-on	7.05	SR10.3.4
98229E	32 MB ECC RAM set add-on	7.05	SR10.3.4
A1443A	660 MB Internal Disk	7.05	N/A
A1444A	660 MB Internal Disk	N/A	SR10.3.4
A2076A	1.3 GB Internal Disk	8.0	SR10.3.5
A1447A	1.3 GB DDS Format 4mm Tape Drive **	7.05	SR10.3.5
A2274A #AHQ	2 GB DDS Format 4mm Tape Drive **	8.0	SR10.3.5
A1449A	1/4-inch QIC Format Tape Drive	N/A	SR10.3.4
A1448A	CD ROM Drive	7.05	SR10.3.5

** See note under "adding internal storage" on DDS format drives





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CONFIGURING A MODEL 433s WORKSTATION Cont'd

Model 433s Configuration Constraints

<u>Total amount of RAM</u>	128MB	<u>Total No. of SCSI buses</u>	1
		• One internal single-ended SCSI bus	
		With DIO-II Expander:	two additional DIO SCSI cards
		With EISA Expander:	none additional
<u>Internal SCSI bus Configuration Constraints</u>		<u>HP-UX</u>	<u>Domain/OS</u>
• Max no. SCSI devices		21	7
Three internal 5.25" peripherals bays, or 2 Internal 5.25" bays + 2 Internal 3 1/2" bays (Limited to 2 harddrives)			
5.25" devices		660MB disk 1.3GB disk 1.3GB DDS	660MB disk 1.3GB disk 1.3GB DDS
3.5" devices		CD-ROM 2GB DDS	CD-ROM 2GB DDS 1/4" QIC tape
• Max no. disk drives (internal + external)		21	7
• Max no. CD-ROM drives		21	6
• Max no. DDS (4MM DAT) drives		3	2
• Max no. 9-track tape drives		HP-IB only	1
• Max no. 650MB magneto-optical drives		21	1
• Max no. magneto-optical autochangers		6*	1
• Max no. 3.5 floppy drives		N/A	N/A
• Max no. 8mm tape drives		N/A	2
• Max no. 1/4" QIC tape drive		N/A	1
• Max no. 1.2MB 5.25" floppy drive		N/A	1
*Note: The Magneto-optical Autochangers use more than one SCSI drive address, which must be accounted for in the total of 7 allowed on a single SCSI bus.			
<u>Cable Length Constraints</u>		(Internal and External)	
• Internal single-ended SCSI bus max total aggregate lengths		6 meters	



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Series 400 Peripheral Support Matrix

Item	Prod Num	Description	Support System				HP-UX Support		Domain/OS Support	
			Model 425e	Model 425t	Model 425s	Model 433s	7.05	8.0	10.3.4	10.3.5
Internal Devices										
210 MB Disk	A2071A	3.5" 210MB SCSI Disk	yes	-	-	-	-	yes	-	yes
420 MB Disk	A2072A	3.5" 420MB SCSI Disk	yes	-	-	-	-	yes	-	yes
	A2075A	3.5" 420MB SCSI Disk	-	yes	-	-	-	yes	-	yes
660 MB Disk	A1443A	5.25" 660MB SCSI Disk	-	-	yes	yes	yes	yes	-	-
	A1444A	5.25" 660MB SCSI Disk	-	-	yes	yes	-	-	yes	yes
1.3GB Disk	A2076A	5.25" 1.3GB SCSI Disk	-	-	yes	yes	-	yes	-	yes
3.5" Floppy	A2073A	1.4 MB Floppy Disk	yes	-	-	-	-	yes	-	yes
1.3 GB DDS	A1447A	1.3 GB DAT Tape	-	-	yes	yes	yes	yes	-	yes
2.0 GB DDS	A2274A	2.0 GB DAT Tape	yes	-	yes	yes	-	yes	-	yes
CD ROM	A2074A	660 MB CD ROM	yes	-	-	-	-	yes	-	yes
	A1448A	660 MB CD ROM	-	-	yes	yes	yes	yes	-	yes
QIC Tape	A1447A	1/4" QIC Format Tape	-	-	yes	yes	-	-	yes	yes
Mass Storage Systems										
Model 660S	C2213A	660MB Disk in 660S System	yes	yes	yes	yes	yes	yes	-	-
Model 660S	C2213D	660MB Disk in 660S System	yes	yes	yes	yes	-	-	yes	yes
Model 1350S	C2214B	1.3GB Disk in 1350S Tower	yes	yes	yes	yes	-	yes	-	yes
External Remov. Media										
5.25" Floppy	AADDSFLP	1.2 MB 5.25" Floppy Standalone	yes	yes	yes	yes	-	-	yes	yes
660Mb Disk	A-660-	660 MB Disk Module	yes	yes	yes	yes	-	-	yes	yes
CD ROM	A1999A	660MB CD ROM Standalone	yes	yes	yes	yes	yes	yes	yes	yes
1.3GB DDS	C1512A	1.3 GB DAT Standalone	yes	yes	yes	yes	yes	yes	yes	yes
2.0GB DDS	C1520B	2.0 GB DAT Standalone	yes	yes	yes	yes	-	yes	-	yes
Re-writable Optical	C1701A	650 MB Mageneto-optic (MOD)	yes	yes	yes	yes	yes	yes	yes	yes
10GB Autochanger	C1703A	10 GB MOD Autochanger	yes	yes	yes	yes	yes	yes	-	-
20GB Autochanger	C1700A	20 GB MOD Autochanger	yes	yes	yes	yes	yes	yes	-	(10.4)
57GB Autochanger	C1704A	57 GB MOD Autochanger	yes	yes	yes	yes	yes	yes	-	-
94GB Autochanger	C1705A	94 GB MOD Autochanger	yes	yes	yes	yes	yes	yes	-	-
1/4" CTAPE	9144A	67 MB HP-IB 1/4" Tape	-	yes	yes	yes	yes	yes	-	-
1/4" CTAPE	9145A	133 MB HP-IB 1/4" Tape	-	yes	yes	yes	yes	yes	-	-
1/2" 9-track Tape	7980S	1/2" 9-track Tape	yes	yes	yes	yes	-	-	yes	yes
1/2" 9-track Tape	A-6250-	1/2" 9-track Tape	-	yes	yes	yes	-	-	yes	yes
8mm Tape	A-EX-	8 mm Tape	-	yes	yes	yes	-	-	yes	yes
8mm Tape	A-OBEX	8 mm Tape	-	yes	yes	yes	-	-	yes	yes
1/4" QIC Tape	AADDESTC	1/4" 60MB QIC Format Tape	-	yes	yes	yes	-	-	yes	yes
Terminals										
HP 700/92	C1001A	Amber, Green, or White Display	yes	yes	yes	yes	yes	yes	-	-
HP 700/94	C1002A	Amber, Green or White Display	yes	yes	yes	yes	yes	yes	-	-
HP 700/44	C1007A	Amber, Green or White Display	yes	yes	yes	yes	yes	yes	-	-
HP 700/RX Mi	C2701B	Monochrome X Station	yes	yes	yes	yes	yes	yes	yes	yes
HP 700/RX Ci	C2704A	Color X-Station	yes	yes	yes	yes	yes	yes	yes	yes
HP 700/RX Ca	C2709A	High Performance Color X Station	yes	yes	yes	yes	yes	yes	yes	yes
HP 700/RX 19Mi	C2702B	19" Monochrome X Station	yes	yes	yes	yes	yes	yes	yes	yes
HP 700/RX 14Ci	C2705A	14" Color X Station	yes	yes	yes	yes	yes	yes	yes	yes
HP 700/RX 16Ci	C2706A	16" Color X Station	yes	yes	yes	yes	yes	yes	yes	yes
HP 700/RX 16Ca	C2710A	16" High Perf. Color X Station	yes	yes	yes	yes	yes	yes	yes	yes
HP 700/RX 19Ca	C2711A	19" High Perf. Color X Station	yes	yes	yes	yes	yes	yes	yes	yes
Printers										
LaserJet IIP	33471A	RS232, Centronics	yes	yes	yes	yes	yes	yes	yes	yes
LaserJet IIP+	C2007A	RS232, Centronics	yes	yes	yes	yes	yes	yes	yes	yes
LaserJet IID	33447A	RS232, Centronics	yes	yes	yes	yes	-	yes	yes	yes
LaserJet IIISi	33491A	RS232, Centronics	yes	yes	yes	yes	-	yes	yes	yes
LaserJet III	33481A	RS232, Centronics	yes	yes	yes	yes	-	yes	-	-
LaserJet IIIP	33459A	RS232, Centronics	yes	yes	yes	yes	-	yes	yes	yes
LaserJet IIID	3630A	RS232, Centronics	yes	yes	yes	yes	yes	yes	-	-
PaintJet		IIP-IB	-	yes	yes	yes	yes	yes	-	-
	C1602A	RS232, Centronics	yes	yes	yes	yes	yes	yes	yes	yes
PaintJet XL		HP-IB	-	yes	yes	yes	yes	yes	-	-
	2562C	RS232	yes	yes	yes	yes	yes	yes	-	-
Line Matrix	2563C	RS232	yes	yes	yes	yes	yes	yes	-	-
300 LPM 16"	2564C	RS232	yes	yes	yes	yes	yes	yes	-	-
600 LPM 16"	2565A	RS232	yes	yes	yes	yes	yes	yes	-	-
600 LPM 18"	2566C	RS232	yes	yes	yes	yes	yes	yes	-	-
900 LPM 18"	2567C	RS232	yes	yes	yes	yes	yes	yes	-	-
1200 LPM 18"										



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HP Apollo 9000 Series 400

Series 400 Peripheral Support Matrix Continued

Item	Prod Num	Description	Support System				HP-UX Support		Domain/OS Support	
			Model 425e	Model 425t	Model 425s	Model 433s	7.05	8.0	10.3.4	10.3.5
<i>Plotters</i>										
DesignJet	C1633B	HP-IB	-	yes	yes	yes	yes	yes	-	-
HP 7600 Model 250	C1625A	Centronics	yes	yes	yes	yes	-	-	yes	yes
HP 7600 Model 255	C1627A	HP-IB	-	yes	yes	yes	yes	yes	-	-
HP 7600 Model 355	C1620A	Centronics	yes	yes	yes	yes	-	-	yes	yes
		HP-IB	-	yes	yes	yes	yes	yes	-	-
ColorPro	7440A	RS232	yes	yes	yes	yes	yes	yes	-	-
HP 7475A	7475A	HP-IB	-	yes	yes	yes	yes	yes	-	-
HP 7550	7550B	RS232	yes	yes	yes	yes	yes	yes	-	-
		HP-IB	-	yes	yes	yes	yes	yes	-	-
DraftPro	7570A	RS232	yes	yes	yes	yes	yes	yes	-	-
		HP-IB	-	yes	yes	yes	yes	yes	-	-
DraftPro DXL	7575A	RS232	yes	yes	yes	yes	yes	yes	-	-
		HP-IB	-	yes	yes	yes	yes	yes	-	-
DraftPro EXL	7576A	RS232	yes	yes	yes	yes	yes	yes	-	-
		HP-IB	-	yes	yes	yes	yes	yes	-	-
DraftMaster SX	7595C	RS232	yes	yes	yes	yes	yes	yes	yes	yes
		HP-IB	-	yes	yes	yes	yes	yes	-	-
DraftMaster RX	7596C	RS232	yes	yes	yes	yes	yes	yes	yes	yes
		HP-IB	-	yes	yes	yes	yes	yes	-	-
DraftMaster MX	7599B	RS232	yes	yes	yes	yes	yes	yes	yes	yes
		HP-IB	-	yes	yes	yes	yes	yes	-	-
<i>HP-HIL Devices</i>										
ID Module	46084A	9 user definable dials	yes	yes	yes	yes	yes	yes	-	-
Control Dial Module	46085A		yes	yes	yes	yes	yes	yes	-	-
Button Box - 32 Keys	46086A		yes	yes	yes	yes	yes	yes	-	-
HP-UX Keyboard	46021A	21 language options English & German language options	yes	yes	yes	yes	yes	yes	-	-
PC-AT Keyboard	C1429A		yes	yes	yes	yes	-	yes	-	-
3 Button Mouse	46060B		yes	yes	yes	yes	yes	yes	-	-
3 Button Trackball	M1309A	Quadrature stylus, cursor, cable tip-switch stylus tip-switch stylus 4 button cursor 4 button cursor	yes	yes	yes	yes	yes	yes	-	-
Quadrature Adapter	46094A		yes	yes	yes	yes	yes	yes	-	-
3 Button Mouse	K1410		yes	yes	yes	yes	yes	yes	-	-
Digitizer 11" x 11"	45911C		yes	yes	yes	yes	yes	yes	-	-
Digitizer A/ISO A4	46087C		yes	yes	yes	yes	yes	yes	-	-
Digitizer B/ISO A3	46088C		yes	yes	yes	yes	yes	yes	-	-
Digitizer A/ISO A4	46090C		yes	yes	yes	yes	yes	yes	-	-
Digitizer B/ISO A3	46091C		yes	yes	yes	yes	yes	yes	-	-
<i>Other I/O Devices</i>										
Serial Converter	K2292	Single to 3 RS232C ports	-	yes	yes	yes	yes	yes	yes	yes
HP-IB	A1450A	No I/O port required, cable included	-	yes	-	-	yes	yes	-	-
HP-IB	A1451A	No I/O port required cable included	-	-	yes	yes	yes	yes	-	-
Centronics	92203J/K	HP-IB to Centronics Converter	-	yes	yes	yes	yes	yes	-	-
Coax/Fiber Optics	37204A	Requires HP-IB	-	yes	yes	yes	yes	yes	-	-
Appollo Token Ring	A-NET-ATR	Uses ISA or EISA slot	-	yes	yes	yes	-	-	yes	yes
IBM Token Ring	A-NET-ITR	Uses ISA or EISA slot	-	yes	yes	yes	-	-	yes	yes
Spaceball	SPTL-2003NA	RS232, North American	yes	yes	yes	yes	yes	yes	yes	yes
Spaceball	SPTL-2003IL	RS232, International	yes	yes	yes	yes	yes	yes	yes	yes
VME expander	A1467A	8 6U slots	-	-	yes	-	yes	yes	-	-

- means not supported
Any peripheral not listed
in this matrix is not supported



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HP Apollo 9000 Series 700/400

HARDWARE DOCUMENTATION

ORDER NUMBER	TITLE
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HP APOLLO 9000 SERIES 400 DOCUMENTATION

A1421-90001	HP Apollo 9000 Series 400 Installation Guide Model 400s, 433s
A1421-90606	Addendum to the HP Apollo 9000 Series 400 Model 400s and 433s Quick Reference Installation Card
A1421-90004	HP Apollo 9000 Model 400s and 433s Configuration Worksheet
A1630-90001	HP Apollo 9000 Series 400 Installation Guide Model 400dl, 400t, 425t
A1630-90005	HP Apollo 9000 Series 400 Workstation Domain/OS Owner's Guide
A1630-90006	HP Apollo 9000 Series 400 Workstation HP-UX Owner's Guide
A1630-90007	Servicing the HP Apollo 9000 Series 400 Models 400dl, 400t, 425t, 400s, 425s, 433s
A1630-90009	HP Apollo 9000 Series 400 Models 400dl, 400t, 425t, 400s, 425s, 433s Service Handbook
A1630-90003	Installing a 200-MB Winchester Disk into the HP Apollo Series 9000 Model 400t and 425t Workstation
A1096-90000	Installing the VRX Monochrome Controller Board (A1096A) into the HP Apollo Series 400 Workstations
D-17517-O	Installing the Disk Expansion Module (DEM) onto the HP Apollo Series 9000 Model 400 and Domain Series 2500 Workstations
A1499-90000	HP Apollo 9000 Series 400 Model 425e Domain/OS Hardware Installation Guide
A1499-90001	HP Apollo 9000 Series 400 Model 425e Domain/OS Owner's Guide [Order the Slipcase and Binder Separately: Order No. 9282-1181]
A1999-90011	Configuring and Using the Internal CD-ROM Drive on HP Apollo 9000 Workstations
A1499-90005	Using DDS-Format Drive with HP Apollo 9000 Series 400 and Series 700 Model 750 Workstations

GENERAL DOCUMENTATION FOR SERIES 400 DOMAIN/OS SYSTEMS

D-9859-O	Domain Hardware Site Planning Specifications
D-14881-B	Domain Hardware Utilities Reference
D-9329-O	Using Domain Diagnostics Volume 1
D-11775-C	Using Domain Diagnostics Volume 2
D-11776-C	Using Domain Diagnostics, Volume 3
A1631-90003	Using Domain Diagnostics, Volume 4
D-16411-O	Unpacking and Installing the Disk/Multiple Disk Expansion Module for the Personal Workstation and Servers
D-12947-O	Operating the Disk/Multiple Disk Expansion Module
D-19436-O	Addendum to Operating the Disk/Multiple Disk Expansion Module [012947-A04]
D-17518-O	Servicing the Disk/Multiple Disk Expansion Module
A1632-90601	Manual Upgrade Cable Instructions

PERIPHERAL DOCUMENTATION FOR SERIES 400 DOMAIN/OS SYSTEMS

D-7456-O	Unpacking and Installing the Model 6250 Magnetic Tape Drive
D-8257-O	Installing the Tablet
D-8262-O	Installing the MSD-300M
D-8263-O	Installing the MSD-1600
D-8267-O	Installing the FSD-500
D-8268-O	Installing Input/Output Devices (I/O) for Domain Nodes
D-9798-O	Installing and Programming the Domain SPE Option
D-7864-O	Installing Apple Laser Writer
D-8258-O	Installing the Multi-mode Printer
D-8261-O	Installing the Printer/Plotter
D-8266-O	Installing the Laser Printer
D-9906-O	Installing and Operating the Tektronix 4692
D-17932-O	LaserJet IID, IIP, III, or IIID PostScript Printer Interface Installation Instructions
A1900-90001	HP-GL/2 Plotter Interface Installation Instructions
A1904-90000	LaserJet PCL Printer Interface Installation Instructions



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HARDWARE DOCUMENTATION

ORDER NUMBER	TITLE
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HP APOLLO 9000 SERIES 700 DOCUMENTATION

MODELS 720, 730, AND 750

A1926-90000	Installation Guide for HP Apollo 9000 Model 720/730 Workstations
A1946-90001	HP Apollo 9000 Model 720/730 Owner's Guide For HP-UX Users
A1961-90000	HP Apollo 9000 Model 750 Owner's Guide for HP-UX Users
A1961-90001	Installation Guide for HP Apollo 9000 Model 750 Workstations and Servers
A1961-90002	Using DEX and SAX with HP-UX
A1926-90003	CE Handbook HP Apollo 9000 Series 700 Workstations/Servers
A1999-90011	Configuring and Using the Internal CD-ROM Drive on HP Apollo 9000 Workstations
A1499-90005	Using DDS-Format Drive with HP Apollo 9000 Series 400 and Series 700 Model 750 Workstations

MODEL 720/730 OPTIONS AND UPGRADES

A1984-90001	HP A1984A SCSI Floppy Disk Drive Installation Guide
A1986-90000	HP A1986A EISA Adapter Upgrade Kit Installation Guide
A1957-90000	HP A1957A Processor Board Upgrade Kit Installation Guide
A1980-90000	HP A1980A, HP A1980A, A1981A, A1982A, and A1983A SCSI Disk Drive Installation Guide

MODEL 750 OPTIONS AND UPGRADES

A1985-90001	HP A1985A CD-ROM Drive Installation Guide
A1968-90001	HP A1968A Floppy Disk Drive Installation Guide
A1988-90001	HP A1988A and A1989A Disk Drive Installation Guide
A1990-90001	HP A1990A DDS-Format Tape Drive Installation Guide
A2275-90000	HP Model 750 DDS-Format Tape Drive Installation Guide
A1961-90006	HP Apollo 9000 Series 700 EISA Configuration Worksheet

MODEL 705 AND MODEL 710

A1991-90000	HP Apollo 9000 Series 700 Model 705 and Model 710 Hardware Installation Guide
A1991-90001	HP Apollo 9000 Series 700 Model 705 and Model 710 Owner's Guide for HP-UX Users [Order the Slipcase and Binder Separately: Order No. 9282-1181]
A1991-90002	Service Handbook - HP Apollo 9000 Series 700 Model 705 and Model 710 Workstations
A1991-90004	Using DEX and SAX with HP-UX, Update Package 1

MODEL 705 AND MODEL 710 OPTIONS AND UPGRADES

A2219-90000	HP A2219A/A2221A SCSI Disk Drive Installation Guide
A2223-90000	HP A2223A SCSI Floppy Disk Drive Installation Guide
A2224-90000	HP A2224A CD-ROM Drive Installation Guide

SERIES 700 GRAPHICS OPTIONS

A1439-90001	Installing the HP A1439A Color Graphics Card into HP Apollo 9000 Series 700 Workstations
A1439-90099	CRX-24 Graphics Card
A1454-90001	Installing the HP A1439A Graphics Card with an HP A1454A Graphics Accelerator Card Into an HP Apollo 9000 Series 700 Workstations
A1454-90099	CRX-24Z Graphics Acceleration Card
A2269-90001	Installing the HP A2269A Dual CRX Graphics Card into HP Apollo 9000 Series 700 Workstations
A2269-90099	Dual CRX Graphics Card



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HP SERIES 6100 MODEL 700/S CD-ROM

A1999-90002	HP Series 6100 Model 700/S CD-ROM Drive User's Guide
A1999-90003	Service Handbook HP Series 6100 Model 700/S CD-ROM Drive
A1999-90004	Installing the A1999-70006 and A1999-70007 Boot ROM Kits [Series 400 Model 400t, 425t, 400s and 425s systems]

HEWLETT-PACKARD WORKSTATION MONITORS

5960-1511	Servicing Hewlett-Packard Workstation Monitors
A1097-90602	Servicing Hewlett-Packard Workstation Monitors, Update Package 1
98778-90001	Hewlett-Packard 98778A Monitor Installation Instructions
98779-90001	Hewlett-Packard 98779A Monitor Installation Instructions
98774-90001	Hewlett-Packard 98774 Monitor Installation Instructions
A1097-90600	Hewlett-Packard A1097C/A1097D Monitor Installation Instructions
A1097-90001	Hewlett-Packard A1097A/A1097B Monitor Installation Instructions
A1497-90600	Hewlett-Packard A1497A/A1497B Monitor Installation Instructions

HP BINDERS

9282-1081	BINDER-D RING 1"
9282-1082	HP BINDER 1 1/4"
9282-1088	HP CE Handbook binder (5.5 x 8.5)
9282-1106	BINDER 1 1/2" W/SLIP CASE
9282-1181	Paper Binder and Slipcase 1 -1/2"



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DOMAIN/OS DOCUMENTATION

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Domain/OS Doc packages that ship with DMN/OS Media and Documentation (LF450BAD/C)

D-OSBOMUS-B DOC PKG DMN/OS USERS SET

D-2348-B	Getting Started With Domain/OS
D-8667-E *	Using TCP/IP Network Applications
D-11418-B	Domain/OS Display Manager Command Reference
D-15213-B	Using the X Window System on Apollo Workstations
B1171-90043 *	USING XWINDOWS
B1171-90042 *	HP VUE User's Guide
B1171-90046 *	HP VUE Configuration Guide

D-OSAEGUS-B DOC PKG AEGIS USERS SET

D-2547-B	Aegis Command Reference
D-11021-B	Using Your Aegis Environment

D-OSSYSUS-B DOC PKG SYSV USERS SET

D-5798-E *	The SysV Command Reference
D-11022-B	Using Your SysV Environment
D-17269-B	SysV User's Guide: Volume I
D-17624-B	SysV User's Guide: Volume II
D-17270-B	SysV Programmer's Guide: Volume I
D-17625-B	SysV Programmer's Guide: Volume II

D-OSBSDUS-B DOC PKG BSD USERS SET

D-5800-E *	The BSD Command Reference
D-11020-B	Using Your BSD Environment
D-17271-B	BSD UNIX User's Manual: Volume I
D-17623-B	BSD UNIX User's Manual: Volume II
D-17272-B	BSD UNIX Programmer's Manual

D-OSADM-B DOC PKG ADMINISTRATORS SET

D-5694-B	Managing Domain/OS and Domain Routing in an Internet
D-8543-E *	Configuring and Managing TCP/IP
D-9916-B	Planning Apollo Networks and Internets
D-16339-B	Managing the Audit Subsystem
D-15363-B	Administering the Domain/OS Registry
D-11272-B	Managing Software Products with the Network License System
D-19208-E *	Domain/OS System Administration Reference
D-19001-E *	Domain/OS System Administration Guide
D-11774-E *	Printing in the Domain/OS Environment: System Admin
B1171-90044 *	HP VUE System Administration
D-11895-E *	Managing NCS Software

* = new/revised for SR10.4



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Optional Domain/OS Doc packages .

D-OSPR-B DOMAIN/OS PROGRAMMERS DOCUMENTATION SET

D-OSSYSCL-B DOC PKG SYSV PRGRMR CALL SET

D-5799-E * SysV Programmer's Reference
D-12205-B Programming with the SysV Transport Interface
D-12275-B Programming with SysV STREAMS
D-12276-B Getting Started with SysV STREAMS
D-19207-E * Domain/OS Standards Compliance Document

D-OSBSDCL-B DOC PKG BSD PRGRMR CALL SET

D-5801-E * BSD Programmer's Reference

D-OSGPHCL-B DOC PKG DMN/OS GRAPHICS CALLS

D-5808-C Programming with Domain Graphics Primitives
D-7194-C Domain Standard Graphics Call Ref: GPR and CTM
D-10430-C Domain Standard Graphics Quick Ref: GPR and CTM

D-OSDOMPR-B DOC PKG DMN/OS PRGRMR REF & TOOL DOC SET

D-5506-B Programming with Domain/OS Calls
D-5696-C Programming with System Calls for Interprocess Communication
D-7196-B * Domain/OS Call Reference Volume 1
D-12888-B * Domain/OS Call Reference Volume 2
D-11010-B Domain/OS Programming Environment Reference
D-11241-B Xlib Programming Manual (O'Reilly Vol. I)
D-13418-B Xlib Reference Manual (O'Reilly Vol. II)
D-19409-E * Domain/OS Call Reference Vol 3
D-11024-E * HP/DDE Reference
D-19579-E * Porting Your GPR Application to Xlib

Additional Domain/OS Books

D-12887-B Using TranScript with Domain/OS
D-7765-C POSTSCRIPT Language Reference
D-11018-B Unix Text Processing
D-15853-B Domain/OS Floating-Point Guide

The following ship with all SR10.4 MEDIA KITS (LF450BAD/C & LD450BAD/C)

D-8860-E * Installing Domain Software
D-18901-E * Domain/OS SR10.4 Release Document
SR10.4 Software Notice (last minute bugs)

* = new/revised for SR10.4



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DOCUMENTATION FOR OPTIONAL SOFTWARE PRODUCTS

Domain/PAK

D-8906-B Analyzing Program Performance with Domain/PAK

Domain/Ada

D-ADA-D DOC PKG ADA

D-8684-C Ada Language Reference Manual
D-8917-D Domain/Ada Development System Reference
D-10978-D Domain/Ada Development System Quick Reference
D-19330-D Domain/Ada 6.0.m/6.0.pmx Release Document

Domain C

D-2093-B DOMAIN C Language Reference

Domain C + +

D-CPLTR-D DOC PKG CPLTR

D-17874-B Domain/C + + Programmer's Guide
D-18885-B HP Codelibs Library Reference (Domain/OS Workstations)
D-18886-B The Annotated C + + Reference Manual [Addison-Wesley]
D-17997-B C + + Primer [Addison-Wesley]

Domain C with C + +

D-CPLT-D DOC PKG CPLUS

D-2093-B DOMAIN C Language Reference
D-17874-B Domain/C + + Programmer's Guide
D-18885-B HP Codelibs Library Reference (Domain/OS Workstations)
D-18886-B The Annotated C + + Reference Manual [Addison-Wesley]
D-17997-B C + + Primer [Addison-Wesley]

HP C + + Developer

D-18897-B HP C + + Developer User's Guide

Domain/CommonLISP

D-CLISP4-C DOC PKG COMMONLISP V4.0

D-8791-C Domain/Common LISP User's Guide
D-15739-C Domain/CommonLISP Tool Reference - Volume 1
D-17146-C Domain/CommonLISP Tool Reference - Volume 2
D-15738-C Domain/CommonLISP Advanced User's Guide
D-15458-C Common LISP: The Language



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DOCUMENTATION FOR OPTIONAL SOFTWARE PRODUCTS

Domain FORTRAN

D-530-B Domain FORTRAN Language Reference

Domain Pascal

D-792-B Domain Pascal Language Reference

HP Concurrent FORTRAN

D-HPCF-B DOC PKG HP CONRNT FORTRAN

D-17996-B HP Concurrent FORTRAN User's Guide

D-18884-B HP Concurrent FORTRAN Quick Reference

NCS/NIDL / New books for 10.4 / May train Release

D-19563-E NCS 2.0 Programmer's Ref

D-19564-E NCS 2.0 Transition Guide

D-19572-E NCS 2.0 Programmer's Guide

NetLS/LSLOCK

D-11273-C 011273-A01 Licensing Software Products with the Network License System

****NOTE:** The same product # was used for NIDL 2.0.1 on 10.4 that we used for NIDL1.5.1 on 10.3, therefore the old NIDL books which HP/Direct still has listed will not be shipping to Domain customers (after May) since we do not intend to sell NIDL on 10.3 and 10.4 simultaneously. (However, HP/Direct will continue to have the 1.5.1 books available since that is the version that ships w/HP-UX 8.x)





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