
HP Apollo 9000 Series 700 U.S. Price and Configuration Guide

November 1992



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INTRODUCTION

What's New in this Guide

This Edition of the Series 700 Price Guide introduces a whole new generation of Series 700 workstations based on the new PA RISC 7100 processor. These systems use the latest release of HP-UX, Release 9.0, which brings with it many new features and improvements. Along with a new 1 year warranty, offered on all new and existing hardware products, new options to enhance basic warranty support are introduced here. This Price Guide includes all of the new products and options, all changes to previously offered products, and guidelines for successfully ordering these products.

These are the new products you will find in this guide:

New Hardware Products

- Model 715/33 Workstations
- Model 715/50 Workstations
- Model 725/50 Workstations
- Model 735 Workstations
- Model 755 Workstations
- CPU Upgrades to Models 715/50, 735, and 755
- CRX-48Z 24 Plane Accelerated, Double Buffered
- Graphics
- Graphics Upgrades
- Fast-Wide 20MB/sec SCSI-II Interface
- 1 and 2GB Fast-Wide SCSI-II Disks, and 2GB Mass Storage Mini-towers
- 1 and 2GB Single-Ended SCSI-II Disks and Mass Storage Mini-towers
- Integrated FDDI network
- CD-quality Audio Input/Output
- 16Mbit DRAM technology for Higher Memory Capacities
- EISA/Apollo Token Ring Adapter
- EISA/ISDN

New Software Products

- HP-UX 9.0
- Instant Ignition for Layered Products
- HP-PEX 5.1
- HP-PHIGS 2.3
- PowerShade 2.0
- ArtCore
- HP VUE 3.0
- HP Shared Print/UX
- HP Desk Scan/UX
- HP RasterOps VideoLine
- New Support Products
- 1 year Warranty – standard
- Warranty upgrade options for all levels of system support.

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 new Series 700 models, for the various graphics options available, and for the HP-UX Release 9.0 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 715/33, Model 715/50, Model 725/50, Model 735, and Model 755) 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*.
- 2) Factory integrated *Configuration Options* provide a wide range of choices of system RAM, internal storage, and other options (installed prior to delivery). For Quick-Ship Bundles available on the Model 715 products, no factory integrated options are available.
- 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. To guide you through the choices available and assist in ordering, a *Configuration Guide* is included at the back of this document. It describes system configuration issues and constraints for each of the new systems.

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.

SYSTEMS OVERVIEW – Desktop Systems

MODEL 715/33 PERFORMANCE DESKTOP WORKSTATIONS

.....

- 33MHz PA-RISC processor with integrated 33MHz floating point co-processor
- delivers 46 SPECmarks, 41 MIPS, and 8.6 MFLOPS
- configurable with 8 to 192 MB main memory
- configurable with a maximum of two internal 3.5" disks and one removable media device
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- external Single Ended SCSI II port (support for a total of up to 7 devices – including internal)
- supports up to 68.6GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with standard ThickNET AUI connector only. ThinNet and Ethertwist cabling require external transceivers available as add-on options
- CD-quality Audio input/output
- optional EISA bus (1 slot) (not available with CRX-24 or CRX-24Z systems)
- auto selecting power supply 115V/230V
- operating environment: HP-UX 9.0 Run-Time, 2 user license-to-use/ separate HP Visual User Environment License (1 user)
- documentation: Owner's Guides, Installation Guide, and General Usage manuals (HP-UX User's Guide, HP -VUE User's Guide, HP-VUE Quick Start Card contained in Localization Kit)

MODEL 715/50 PERFORMANCE DESKTOP WORKSTATIONS

.....

- 50MHz PA-RISC processor with integrated 50MHz floating point co-processor
- delivers 69 SPECmarks, 62 MIPS, and 13 MFLOPS
- configurable with 16 to 256 MB main memory
- configurable with a maximum of two internal 3.5" disks and one removable media device
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- external Single Ended SCSI II port (support for a total of up to 7 devices – including internal)
- supports up to 68.6GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with standard ThickNET AUI connector only. ThinNet and Ethertwist cabling require external transceivers available as add-on options
- CD-quality Audio input/output
- includes EISA bus (1 slot) (not available with CRX-24, CRX-24Z or CRX-48Z systems)
- auto selecting power supply 115V/230V
- operating environment: HP-UX 9.0 Run-Time, 2 user license-to-use/ separate HP Visual User Environment License (1 user)
- documentation: Owner's Guides, Installation Guide, and General Usage manuals (HP-UX User's Guide, HP -VUE User's Guide, HP-VUE Quick Start Card contained in Localization Kit)

MODEL 725/50 PERFORMANCE DESKTOP WORKSTATIONS

.....

- 50MHz PA-RISC processor with integrated 50MHz floating point co-processor
- delivers 69 SPECmarks, 62 MIPS, and 13 MFLOPS
- configurable with 32 to 256 MB main memory
- configurable with a maximum of two internal 3.5" disks and one removable media device
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- external Single Ended SCSI II port (support for a total of up to 7 devices – including internal)
- supports up to 239.8GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with standard ThickNET AUI connector only. ThinNet and Ethertwist cabling require external transceivers available as add-on options
- CD-quality Audio input/output
- includes EISA bus (4 slot) (3 available slots on CRX-24, CRX24-Z and CRX-48Z systems)
- auto selecting power supply 115V/230V
- operating environment: HP-UX 9.0 Run-Time, 2 user license-to-use/ separate HP Visual User Environment License (1 user)
- documentation: Owner's Guides, Installation Guide, and General Usage manuals (HP-UX User's Guide, HP -VUE User's Guide, HP-VUE Quick Start Card contained in Localization Kit)

Model 735 Performance Desktop Workstations

- 99MHz PA-RISC processor with integrated 99MHz floating point co-processor
- delivers 147 SPECmarks, 124 MIPS, and 40 MFLOPS
- configurable with 32MB to 400MB main memory
- configurable with a maximum of 2 internal 3.5" storage devices
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- Fast-Wide SCSI II port (support for a total of up to 15 devices – including internal)
- Single-Ended SCSI II port (support for a total of up to 7 devices – including internal)
- supports up to 126GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with ThinNET (optional ThickNET)
- optional integrated FDDI (replaces standard Ethernet)
- CD-quality Audio input/output
- includes EISA bus (1 slot)
- auto selecting power supply 115V/230V
- operating environment: HP-UX 9.0 Run-Time, 2 user license-to-use/
separate HP Visual User Environment License (1 user)
- documentation: Owner's Guides, Installation Guide, and General Usage manuals
(HP-UX User's Guide, HP-VUE User's Guide, HP-VUE Quick Start Card
contained in Localization Kit)
- stand and labels for optional desktide use

Model 755 DESKSIDE Workstations

- 99MHz PA-RISC processor with integrated 99MHz floating point co-processor
- delivers 147 SPECmarks, 124 MIPS, and 40 MFLOPS
- configurable with 64 to 768 MB main memory
- configurable with a 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 RS232C ports
- 1 Centronics parallel port
- Fast-Wide SCSI II port (support for a total of up to 15 devices – including internal)
- Single-Ended SCSI II port (support for a total of up to 7 devices – including internal)
- supports up to 297GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with ThinNET
- optional integrated FDDI
- CD-quality Audio input/output
- includes EISA bus (4 slots)
- auto selecting power supply 115V/230V
- operating environment: HP-UX 9.0 Run-Time, 2 user license-to-use/
separate HP Visual User Environment License (1 user)
- documentation: Owner's Guides, Installation Guide, and General Usage manuals
(HP-UX User's Guide, HP-VUE User's Guide, HP-VUE Quick Start Card
contained in Localization Kit)

OPERATING ENVIRONMENT**HP-UX Release 9.0 Run-Time Environment Key Standard Features:**

- HP-UX command set
- HP VUE 3.0
- ARPA Berkeley services
- Network File System (NFS4.1)
- HP Diskless
- LAN Link software
- Native Language Support (NLS)
- System Administration Manager (SAM)
- Kernighan & Ritchie C Compiler
- Disk quotas
- Keyshell - easy-to-use, menu-driven shell
- Diagnostics
- Compliance with XPG, POSIX, FIPS, SVID
- Run-Time support for:
Network License Server (NetLS)
Network Computing System (NCS)
Applications using:
Starbase Graphics Library
Starbase Display List
Shared libraries
Applications built on OSF Motif and
X Window (X11R4 & X11R5)
- Imaging & audio
- On-line HP-UX hyper media help
- Screen oriented mail handler (ELM)
- Terminal Session Manager

GRAPHICS OPTIONS

Grayscale

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

GRX Grayscale

- 8-plane 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-buffered)
- 16.7 million colors
- 1280x1024 resolution, 19" display
- 72Hz monitor refresh rate
- 8 overlay planes

CRX-48Z Color

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

Color

- 8-plane color
- 256 colors
- 1280x1024 resolution, 19" display
- 1024x768 resolution, 17" display
- 72 Hz monitor refresh rate
- Accelerated X11 performance

CRX Color

- 8-plane 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

SERIES 700 WORKSTATION LOCALIZATION KITS

(Must Order With Every Series 700 Workstation)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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A1099C HP-UX Series 700 Workstation Localization Kit (HP-HIL keyboard, 3-button mouse, localized manual set, appropriate power configuration) **\$105.**

Select HP-UX Release: (must order one)

#APP	HP-UX Release 8.X Documentation	N/C
#APH	HP-UX Release 9.0 Documentation (Required for all Series 700 products introduced after November, 1992)	N/C
#0B0	Delete manual set	N/C

Select Localized Option: (must order one)

N/C

#ABA	N. American	#ABC	Can French
#ABD	German	#ABE	Eur. Spanish
#ABF	French	#ABH	Dutch
#AB0	Taiwanese	#ABJ	Katakana
#ABK	ICON	#ABM	Lat. Spanish
#ABN	Norwegian	#ABP	Sw. German
#ABQ	Sw. French	#AB1	Korean
#ABS	Swedish	#ABU	UK
#AKX	Belgian	#ABX	Finnish
#ABY	Danish	#ABZ	Italian
#AR0	Kanji		

A2205B HP-UX Series 700 Workstation Localization Kit (PC-style keyboard, 3-button mouse, localized manual set, appropriate power configuration) **\$105.**

Select HP-UX Release: (must order one)

#APP	HP-UX Release 8.X Documentation	N/C
#APH	HP-UX Release 9.0 Documentation (Required for all Series 700 products introduced after November, 1992)	N/C
#0B0	Delete manual set	N/C

Select Localized option: (must order one)

N/C

#ABA	English Keyboard/N. American Power Cord	#ABC	English Keyboard/N. American Power Cord
#ABD	German Keyboard/German Power Cord	#ABE	Spanish Keyboard/Spanish Power Cord
#ABF	French Keyboard/French Power Cord	#ABH	English Keyboard/Dutch Power Cord
#AB0	English Keyboard/Taiwanese Power Cord	#ABJ	English Keyboard/Japanese Power Cord
#ABK	English Keyboard/International Power Cord	#ABM	English Keyboard/Latin Amer. Power Cord
#ABN	Norwegian Keyboard/Norwegian Power Cord	#ABP	Sw. German Keyboard/Swiss Power Cord
#ABQ	Sw. French Keyboard/Swiss Power Cord	#AB1	English Keyboard/Korean Power Cord
#ABS	Swedish Keyboard/Swedish Power Cord	#ABU	UK Keyboard/ UK Power Cord
#AKX	English Keyboard/Belgian Power Cord	#ABX	English Keyboard/Finnish Power Cord
#ABY	Danish Keyboard/Danish Power Cord	#ABZ	Italian Keyboard/Italian Power Cord
#AR0	English Keyboard/Japanese Power Cord		

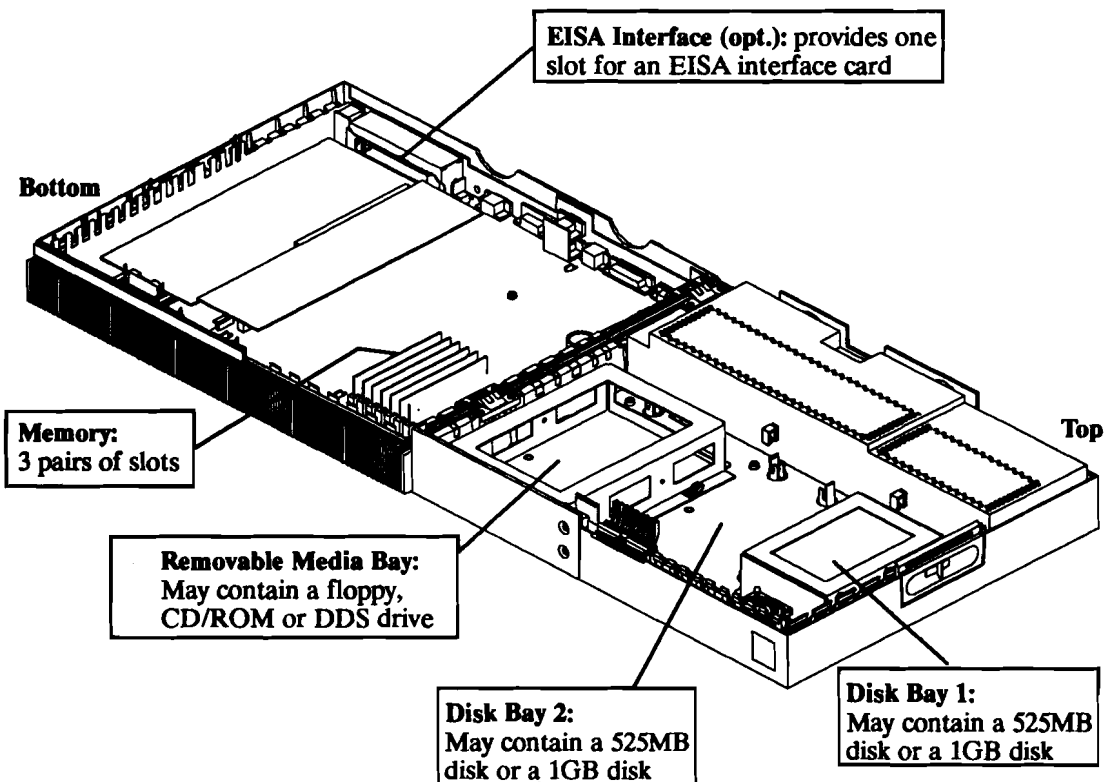
MODEL 715/33 PERFORMANCE DESKTOP WORKSTATIONS

System Standard Features

- 33MHz PA-RISC processor with integrated 33MHz floating point co-processor
- delivers 46 SPECmarks, 41 MIPS, and 8.6 MFLOPS
- configurable with 8 to 192 MB main memory
- configurable with a maximum of two internal 3.5" disks and one removable media device
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- external Single Ended SCSI II port (support for a total of up to 7 devices – including internal)
- supports up to 68.6GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with standard ThickNET AUI connector only. ThinNet and Ethertwist cabling require external transceivers available as add-on options
- CD-quality Audio input/output
- optional EISA bus (1 slot) (not available with CRX-24 or CRX-24Z systems)
- auto selecting power supply 115V/230V
- operating environment: HP-UX 9.0 Run-Time, 2 user license-to-use/
separate HP Visual User Environment License (1 user)
- documentation: Owner's Guides, Installation Guide, and General Usage manuals
(HP-UX User's Guide, HP -VUE User's Guide, HP-VUE Quick Start Card
contained in Localization Kit)

MODEL 715/33 SYSTEM

Options Diagram



MODEL 715/33 PA-RISC WORKSTATIONS**QUICK-SHIP BUNDLES – UNDER TWO WEEK AVAILABILITY**

*(May not be ordered with Factory Integrated Options or
Pre-loaded Layered Software Products)*

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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MODEL 715/33 GRAYSCALE QUICK-SHIP BUNDLES

A2614A	19" grayscale monitor, 16MB RAM, one 525MB internal Single-Ended SCSI II disk and HP-UX 9.0 Run-Time Instant Ignition	Localization Kit Ethernet Kit	\$7,890.	\$636.
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MODEL 715/33 COLOR QUICK-SHIP BUNDLES

A2616A	17" color monitor, 16MB RAM, one 525MB internal Single-Ended SCSI II disk, internal 1.4MB 3.5" Floppy and HP-UX 9.0 Run-Time Instant Ignition	Localization Kit Ethernet Kit	\$9,415.	\$615.
A2617A	19" color monitor, 16MB RAM, one 525MB internal Single-Ended SCSI II disk and HP-UX 9.0 Run-Time Instant Ignition	Localization Kit Ethernet Kit	\$9,990.	\$663.
A2618A	19" color monitor, 32MB RAM, one 525MB internal Single-Ended SCSI II disk and HP-UX 9.0 Run-Time Instant Ignition	Localization Kit Ethernet Kit	\$11,590.	\$687.
A2619A	19" color monitor, 32MB RAM, one 1GB internal Single-Ended SCSI II disk and HP-UX 9.0 Run-Time Instant Ignition	Localization Kit Ethernet Kit	\$13,240.	\$693.

MODEL 715/33 PA-RISC WORKSTATION – STANDARD CONFIGURATIONS

(support Factory Integrated Options)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
MODEL 715/33 GRAYSCALE WORKSTATION				
A2610A	19" grayscale monitor, 16MB RAM, diskless Available Options: 012, AN8, ANN, 112, UFK, AT9, AT7, AMB, AM8, AMW, AMX, ALD, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0 Ethernet Kit	\$5,590.	\$615.
MODEL 715/33 COLOR WORKSTATIONS				
A2612A	17" color monitor, 16MB RAM, diskless Available Options: AN8, ANN, 112, UFK, AT9, AT7, AMB, AM8, AMW, AMX, ALD, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0 Ethernet Kit	\$6,590.	\$594.
A2613A	19" color monitor, 16MB RAM, one 525MB internal Single-Ended SCSI II Disk Available Options: AN8, ANN, 112, UFK, 013, 014, AT9, AT7, AMB, AM8, AMW, AMX, ALD, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0 Ethernet Kit	\$9,890.	\$702.
MODEL 715/33 CRX-24 COLOR 2D/3D WORKSTATION				
A2620A	24 plane CRX color graphics, 19" color monitor, 16MB RAM, one 525MB internal Single-Ended SCSI II disk, Available Options: AN8, ANN, 112, UFK, 013, AT9, AT7, AMB, AM8, AMW, AMX, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0 Ethernet Kit	\$13,890.	\$843.
MODEL 715/33 CRX-24Z COLOR 2D/3D WORKSTATION				
A2621A	24 plane CRX color graphics with accelerator and Z-Buffer, 19" color monitor, 16MB RAM, one 525MB internal Single-Ended SCSI II Disk, PowerShade Software Available Options: AN8, ANN, 112, UFK, 013, AT9, AT7, AMB, AM8, AMW, AMX, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0 Ethernet Kit	\$18,890.	\$936.

MODEL 715/33—FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Memory <i>(Maximum of one factory integrated memory option per workstation)</i>				
#012	Delete 8MB memory , for a total of 8MB <i>Not available on Model 715/33 color systems 8MB RAM does not support internal storage or EISA options</i>	Model 715/33 Grayscale— A2610A	-\$700.	
#AN8	Add 16MB memory , for a total of 32MB <i>(configured with four 8MB Simms)</i>		\$1,600.	
#ANN	Add 32MB memory , for a total of 48MB <i>(configured with six 8MB Simms)</i>		\$3,200.	
#112	Add 112MB memory , for a total of 128MB <i>(configured with four 32MB Simms)</i>		\$19,600.	
#UFK	Add 176MB memory , for a total of 192MB <i>(configured with six 32MB Simms)</i>		\$30,800.	
Internal Storage				
#013	Replace 525MB Single-Ended SCSI-II disk drive with a 1GB Single-Ended SCSI-II disk drive	Model 715/33 with a 525MB disk	\$1,650.	
#014	Delete 525MB Single-Ended SCSI-II disk drive	Model 715/33 (A2613A only)	-\$1,700.	
#AT9	Add 525MB Single-Ended SCSI-II disk drive <i>Maximum of two disks per workstation.</i>	Model 715/33 with no more than one disk	\$2,200.	
#AT7	Add 1GB Single-Ended SCSI-II disk drive <i>Maximum of two disks per workstation.</i>	Model 715/33 with no more than one disk	\$3,850.	
#AMB	Add 1.4MB 3.5" SCSI-II floppy disk drive <i>Only one per system. May NOT be ordered concurrently with options AMB, AMW or AMX</i>		\$525.	
#AM8	Add 600MB 5.25" CD ROM SCSI-II drive <i>Only one per system. May NOT be ordered concurrently with options AMB, AMW or AMX</i>		\$1,050.	
#AMW	Add 2 GB 3.5" DDS SCSI-II tape drive <i>Only one per system. May NOT be ordered concurrently with options AMB, AM8 or AMX</i>		\$2,625.	
#AMX	Add 4–8 GB DDS SCSI-II tape drive w/ data compression <i>Only one per system. May NOT be ordered concurrently with options AMB, AM8 or AMW</i>		\$3,675.	
EISA Expansion <i>(Maximum of one EISA Expansion slot)</i>				
#ALD	Add one EISA Expansion Slot <i>May NOT be ordered concurrently with a 24-plane graphics subsystem</i>		\$1,000.	

MODEL 715/33-FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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Support *(Maximum of one warranty upgrade and installation)*

- #0S0 Hardware: Upgrades warranty to 1-year next-day**
on-site repair, support-line access, license-to-use updates.*
- #0S1 Hardware: Upgrades warranty to 1-year 4-hour**
on-site repair, support-line access, license-to-use updates.*
- #0S2 Hardware: Upgrades warranty to 1-year next-day**
on-site repair, Software Phone Assistance (HP-UX),
support-line access, license-to-use updates.*
- #0S3 Hardware: Upgrades warranty to 1-year 4-hour**
on-site repair, Software Phone Assistance (HP-UX),
support-line access, license-to-use updates.*
- #0S4 Installation**
System installation, configuration and verification,

* Media & documentation updates available - see support section

Support Options for 715/33 Standard Configurations

Option price includes indicated level of support for standard configuration and all factory integrated options for the first year following delivery.

	0S0 Next Day	0S1 4 hour	0S2 Next Day phone sup.	0S3 4 hour phone sup.	0S4 Installation
A2610A	615	785	1131	1301	428
A2612A	594	742	1110	1258	428
A2613A	702	958	1218	1474	428
A2620A	843	1241	1359	1757	428
A2621A	936	1366	1452	1882	428

Support Options for 715/33 Quick-Ship Bundles

Option price includes indicated level of support for Quick-Ship bundles for the first year following delivery.

	0S0 Next Day	0S1 4 hour	0S2 Next Day phone sup.	0S3 4 hour phone sup.	0S4 Installation
A2614A	636	828	1152	1344	428
A2616A	615	785	1131	1301	428
A2617A	663	881	1179	1397	428
A2618A	687	934	1203	1450	428
A2619A	693	948	1209	1464	428

MODEL 715/33-FACTORY INTEGRATED CONFIGURATION MATRIX

	Memory					Internal Storage								Other		
	Only one memory option may be ordered per workstation.					Maximum of two internal disks and one removable media device per workstation										
Option Standard Configuration	#012 Delete 8MB	#AN8 Add 16MB	#ANN Add 32MB	#112 Add 112MB	#UFK Add 176MB	#013 Replace 525MB w/ 1GB	#014 Delete 525MB	#AT9 525MB Disk	#AT7 1GB Disk	#AMB 1.4MB Floppy	#AM8 600MB CD	#AMW 2GB DDS	#AMX 4-8GB DDS	#ALD EISA Slot		
A2610A 19" Grayscale, 16MB RAM, Diskless \$5,590	-700	1600	3200	19600	30800			2200	3850	525	1050	2625	3675	1000		
A2612A 17" Color, 16MB RAM, Diskless \$6,590		1600	3200	19600	30800			2200	3850	525	1050	2625	3675	1000		
A2613A 19" Color, 16MB RAM, 525MB SE Disk \$9,890		1600	3200	19600	30800			1650	1700	2200	3850	525	1050	2625	3675	1000
A2620A CRX-24 19", 16MB RAM, 525MB SE Disk \$13,890		1600	3200	19600	30800			1650		2200	3850	525	1050	2625	3675	
A2621A CRX-24Z, 19", 16MB RAM, 525MB SE Disk \$18,890		1600	3200	19600	30800			1650		2200	3850	525	1050	2625	3675	

MODEL 715/33 – ADD-ON OPTIONS (customer or field installed)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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Ethernet Kit

Previous Series 700 workstations came with both ThinLAN (BNC) and a ThickLAN (AUI) connectors as standard. The Models 715/33, 715/50 and 725/50 offer only the ThickLAN (AUI) connector as standard. The following ThinLAN and EtherTwist transceivers are available to accommodate these cabling alternatives..

A2670A	Add-on ThinLAN Ethernet transceiver		\$175.	
A2671A	Add-on EtherTwist transceiver		\$175.	

Memory See System Configuration Diagram for maximum memory constraints

A2815A	8MB RAM add-on. (two 4MB Simms)	Model 715/33	\$800.	
A2816A	16MB RAM add-on. (two 8MB Simms)	Model 715/33	\$1,600.	
A2827A	64MB RAM add-on. (two 32MB Simms)	Model 715/33	\$11,200.	

Internal Storage

A2800A	525MB Single-Ended SCSI-II disk Maximum of 2 disks per workstation	Model 715/33 with no more than one disk	\$2,200.	
A2801A	1GB Single-Ended SCSI-II disk Maximum of 2 disks per workstation	Model 715/33 with no more than one disk	\$3,850.	
A2802A	Add 1.4MB 3.5" Floppy Disk Drive	Model 715/33 with no other removable media device	\$525.	
A2803A	Add 600MB 5.25" CD ROM Drive	Model 715/33 with no other removable media device	\$1,050.	
A2274A	Add 2GB DDS Tape Drive (must order option)	Model 715/33 with no other removable media device	\$2,625.	
#AHV	Upgrade kit (mounting bracket for Model 715/33		N/C	
A2275A	Add 4 – 8 GB (with compression) DDS Tape Drive (must order option)	Model 715/33 with no other removable media device	\$3,675.	
#AHV	Upgrade kit (mounting bracket tray for Model 715/33		N/C	

Graphics

B2156B	PowerShade for HP-UX 9.0 3D surfaces rendering software, 1-user license-to-use	HP-UX 9.0	\$2,100.	
#AAH	4mm DDS tape		\$205.	
#AAU	CD-ROM Certificate		N/C	

MODEL 715/33 – ADD-ON OPTIONS (customer or field installed)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
EISA Expansion (Maximum of one EISA Expansion option per Model 715/33)				
A2804A	EISA Expansion Slot Not available with 24-plane graphics subsystem	Model 715/33	\$1,000.	
EISA Interface (Not available with 24-plane graphics subsystem)				
25525B	EISA FAST Differential SCSI II Host Adaptor Connects fast differential SCSI II devices through EISA slot Includes a differential, low density terminator NOTE: Only the new version 25525B (not the model 25525A) is qualified for use on model 715/33, 715/50 and 725/50	Series 700 w/EISA	\$1,255.	
25560A	EISA HPIB Host Adaptor Connects HP-IB peripherals through EISA slot	Series 700 w/EISA Required HPIB extender connector (10834A) when used with a Model 715	\$1,255.	
25567A	EISA LAN/9000 – IEEE 802.3 Provides second ethernet LAN. Includes LAN hardware built in ThinMAU and BNC connector.	Series 700 w/EISA	\$1,465.	
#740	Add Thick MAU tap and 6 meter cable		\$415.	
#840	Add Ethertwist MAU and 1 meter cable		\$205.	
J2159A	EISA X.25 Link Provides network access via X.25	Series 700 w/EISA HP-UX 8.07 or greater	\$4,410.	\$27.
#1AT	Add RS232 cable		N/C	
#1AU	Add V.35 cable		N/C	
#1AW	Delete Software Right-to-use and documentation (hardware only)		-\$1,200.	
J2165A	EISA 802.5 (IBM) Token Ring network Provides direct connection to any IEEE 802.5 Token Ring network	Series 700 w/EISA HP-UX 8.07 or greater	\$1,675.	
J2156A	EISA FDDI Link	Series 700 w/EISA	\$4,720.	\$33.
#1AW	Delete Software Right-to-use and documentation (hardware only)	HP-UX 8.07 or greater	-\$995.	
A2544A	Apollo Token Ring Adapter Provides Apollo Token Ring EISA Card, HP-UX Device Driver on DDS Tape, and Installation Documentation.	Series 700 w/EISA HP-UX 8.07 or greater	\$1,435.	
J2104A	ISDN BRI ISA/EISA Adapter Provides ISDN BRI ISA/EISA Card,	Series 700 w/EISA HP-UX 8.07 or greater	\$3,030.	
#AAH	Software on DDS Tape		N/C	
#AAU	CD-ROM Certificate		N/C	
#099	Add-on Software to use HP S700 as a non-dedicated Ethernet-to-ISDN Gateway for TCP/IP communications		\$1,375.	



MODEL 715/50 PERFORMANCE DESKTOP WORKSTATIONS

System Standard Features

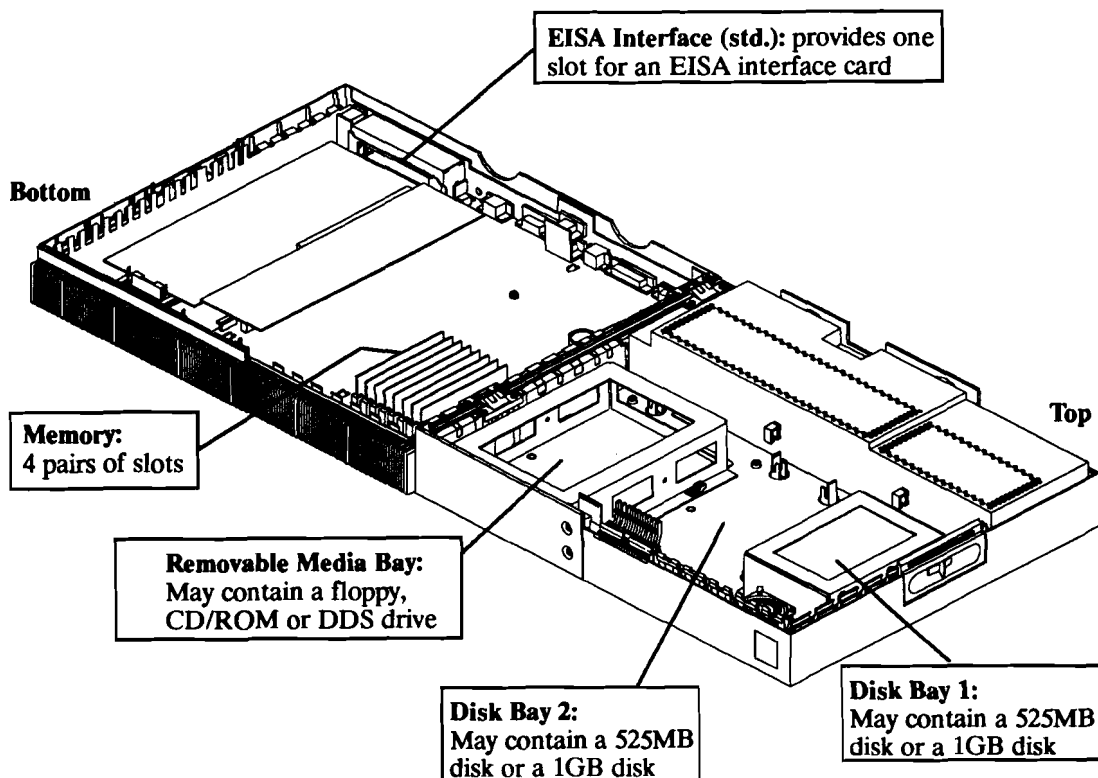
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- 50MHz PA-RISC processor with integrated 50MHz floating point co-processor
- delivers 69 SPECmarks, 62 MIPS, and 13 MFLOPS
- configurable with 16 to 256 MB main memory
- configurable with a maximum of two internal 3.5" disks and one removable media device
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- external Single Ended SCSI II port (support for a total of up to 7 devices - including internal)
- supports up to 68.6GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with standard ThickNET AUI connector only. ThinNet and Ethertwist cabling require external transceivers available as add-on options
- CD-quality Audio input/output
- includes EISA bus (1 slot) (not available with CRX-24, CRX-24Z or CRX-48Z systems)
- auto selecting power supply 115V/230V
- operating environment: HP-UX 9.0 Run-Time, 2 user license-to-use/
separate HP Visual User Environment License (1 user)
- documentation: Owner's Guides, Installation Guide, and General Usage manuals
(HP-UX User's Guide, HP -VUE User's Guide, HP-VUE Quick Start Card
contained in Localization Kit)

MODEL 715/50 SYSTEM

Options Diagram

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MODEL 715/50 PA-RISC Workstations**QUICK-SHIP BUNDLES – UNDER TWO WEEK AVAILABILITY**

*(May not be ordered with Factory Integrated Options or
Pre-loaded Layered Software Products)*

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
MODEL 715/50 COLOR QUICK-SHIP BUNDLES				
A2629A	19" color monitor, 16MB RAM, one 525MB internal Single-Ended SCSI II disk, and HP-UX 9.0 Run-Time Instant Ignition	Localization Kit Ethernet Kit	\$13,990.	\$663.
A2630A	19" color monitor, 32MB RAM, one 525MB internal Single-Ended SCSI II disk, and HP-UX 9.0 Run-Time Instant Ignition	Localization Kit Ethernet Kit	\$15,590.	\$687.
A2631A	19" color monitor, 32MB RAM, one 1GB internal Single-Ended SCSI II disk, and HP-UX 9.0 Run-Time Instant Ignition	Localization Kit Ethernet Kit	\$17,240.	\$693.
A2632A	19" color monitor, 32MB RAM, one 1GB internal Single-Ended SCSI II disk, 4mm DDS Tape Drive with data compression, and HP-UX 9.0 Run-Time Instant Ignition	Localization Kit Ethernet Kit	\$20,915.	\$783.

MODEL 715/50 PA-RISC WORKSTATIONS – STANDARD CONFIGURATIONS

(support Factory Integrated Options)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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MODEL 715/50 GRAYSCALE WORKSTATION

A2625A	19" grayscale monitor, 16MB RAM, one 525MB internal Single-Ended SCSI II disk, Available Options: AN8, AND, 112, UFB, 013, AT9, AT7, AMB, AM8, AMW, AMX, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0 Ethernet Kit	\$11,790.	\$675.
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MODEL 715/50 COLOR 2D/3D WORKSTATION

A2627A	19" color monitor, 16MB RAM, one 525MB internal Single-Ended SCSI II disk, Available Options: AN8, AND, 112, UFB, 013, AT9, AT7, AMB, AM8, AMW, AMX, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0 Ethernet Kit	\$13,890.	\$702.
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MODEL 715/50 CRX-24 COLOR 2D/3D WORKSTATION

A2633A	24 plane CRX color graphics, 19" color monitor, 16MB RAM, one 525MB internal Single-Ended SCSI II disk, Available Options: AN8, AND, 112, UFB, 013, AT9, AT7, AMB, AM8, AMW, AMX, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0 Ethernet Kit	\$17,890.	\$843.
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MODEL 715/50 CRX-24Z COLOR 2D/3D WORKSTATION

A2634A	24 plane CRX color graphics with accelerator and Z-buffer, 19" color monitor, 16MB RAM, one 525MB internal Single-Ended SCSI II disk, PowerShade Software Available Options: AN8, AND, 112, UFB, 013, AT9, AT7, AMB, AM8, AMW, AMX, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0 Ethernet Kit	\$22,890.	\$921.
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MODEL 715/50 CRX-48Z COLOR 2D/3D WORKSTATION

A2635A	24 plane double buffered CRX color graphics with accelerator and Z-buffer, 19" color monitor, 16MB RAM, one 525MB internal Single-Ended SCSI II disk, PowerShade Software Available Options: AN8, AND, 112, UFB, 013, AT9, AT7, AMB, AM8, AMW, AMX, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0 Ethernet Kit	\$27,890.	\$1074.
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MODEL 715/50-FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Memory <i>(Maximum of one factory integrated memory option per workstation)</i>				
#AN8	Add 16MB memory , for a total of 32MB (configured with four 8MB SIMMS)		\$1,600.	
#AND	Add 48MB memory , for a total of 64MB (configured with eight 8MB SIMMS)		\$4,800.	
#112	Add 112MB memory , for a total of 128MB (configured with four 32MB SIMMS)		\$19,600.	
#UFB	Add 240MB memory , for a total of 256MB (configured with eight 32MB SIMMS)		\$42,000.	
Internal Storage				
#013	Replace 525MB Single-Ended SCSI-II disk drive with a 1GB Single-Ended SCSI-II disk drive <i>Maximum of two disks per workstation.</i>	Model 715/50	\$1,650.	
#AT9	Add 525MB Single-Ended SCSI-II disk drive <i>Maximum of two disks per workstation.</i>	Model 715/50 with no more than one disk	\$2,200.	
#AT7	Add 1GB Single-Ended SCSI-II disk drive <i>Maximum of two disks per workstation.</i>	Model 715/50 with no more than one disk	\$3,850.	
#AMB	Add 1.4MB 3.5" SCSI-II floppy disk drive <i>Only one per system. May NOT be ordered concurrently with options AM8, AMW or AMX</i>		\$525.	
#AM8	Add 600MB 5.25" CD ROM SCSI-II drive <i>Only one per system. May NOT be ordered concurrently with options AMB, AMW or AMX</i>		\$1,050.	
#AMW	Add 2 GB 3.5" DDS SCSI-II tape drive <i>Only one per system. May NOT be ordered concurrently with options AMB, AM8 or AMX</i>		\$2,625.	
#AMX	Add 4-8 GB DDS SCSI-II tape drive w/ data compression <i>Only one per system. May NOT be ordered concurrently with options AMB, AM8 or AMW</i>		\$3,675.	

MODEL 715/50-FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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Support *(Maximum of one warranty upgrade and installation)*

- #0S0 Hardware: Upgrades warranty to 1-year next-day**
on-site repair, support-line access, license-to-use updates.*
- #0S1 Hardware: Upgrades warranty to 1-year 4-hour**
on-site repair, support-line access, license-to-use updates.*
- #0S2 Hardware: Upgrades warranty to 1-year next-day**
on-site repair, Software Phone Assistance (HP-UX),
support-line access, license-to-use updates.*
- #0S3 Hardware: Upgrades warranty to 1-year 4-hour**
on-site repair, Software Phone Assistance (HP-UX),
support-line access, license-to-use updates.*
- #0S4 Installation**
System installation, configuration and verification.

* Media & documentation updates available – see support section

Support Options for 715/50 Standard Configurations

Option price includes indicated level of support for standard configuration and all factory integrated options for the first year following delivery.

	0S0 Next Day	0S1 4 hour	0S2 Next Day phone sup.	0S3 4 hour phone sup.	0S4 Installation
A2625A	675	905	1191	1421	428
A2627A	702	958	1218	1474	428
A2633A	843	1241	1359	1757	428
A2634A	921	1394	1437	1910	428
A2635A	1074	1702	1590	2218	428

Support Options for 715/50 Quick-Ship Bundles

Option price includes indicated level of support for Quick-Ship bundles for the first year following delivery.

	0S0 Next Day	0S1 4 hour	0S2 Next Day phone sup.	0S3 4 hour phone sup.	0S4 Installation
A2629A	663	881	1179	1397	428
A2630A	687	934	1203	1450	428
A2631A	693	948	1209	1464	428
A2632A	783	1126	1299	1642	428

MODEL 715/50-FACTORY INTEGRATED CONFIGURATION MATRIX

	Memory			Internal Storage							
	Only one memory option may be ordered per workstation.			Maximum of two internal disks and one removable media device per workstation							
Option Standard Configuration	#AN8 Add 16MB	#AND Add 48MB	#112 Add 112MB	#UFB Add 240MB	#013 Replace 525MB w/1GB	#AT9 525MB Disk	#AT7 1GB Disk	#AMB 1.4MB Floppy	#AM8 600MB CDROM	#AMW 2GB DDS	#AMX 4-8GB DDS
A2625A 19" Grayscale, 16MB RAM, 525MB SE Disk \$11,790	1600	4800	19600	42000	1650	2200	3850	525	1050	2625	3675
A2627A 19" Color, 16MB RAM, 525MB SE Disk \$13,890	1600	4800	19600	42000	1650	2200	3850	525	1050	2625	3675
A2633A CRX-24 19", 16MB RAM, 525MB SE Disk \$17,890	1600	4800	19600	42000	1650	2200	3850	525	1050	2625	3675
A2634A CRX-24Z, 19", 16MB RAM, 525MB SE Disk \$22,890	1600	4800	19600	42000	1650	2200	3850	525	1050	2625	3675
A2635A CRX-48Z, 19", 16MB RAM, 525MB SE Disk \$27,890	1600	4800	19600	42000	1650	2200	3850	525	1050	2625	3675

MODEL 715/50 – ADD-ON OPTIONS (customer or field installed)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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Ethernet Kit

Previous Series 700 workstations came with both ThinLAN (BNC) and a ThickLAN (AUI) connectors as standard. The Models 715/33, 715/50 and 725/50 offer only the ThickLAN (AUI) connector as standard. The following ThinLAN and EtherTwist transceivers are available to accommodate these cabling alternatives..

A2670A	Add-on ThinLAN Ethernet transceiver		\$175.	
A2671A	Add-on EtherTwist transceiver		\$175.	

Memory (See System Configuration Diagram for maximum memory constraints)

A2815A	8MB RAM add-on. (Two 4MB Simms)	Model 715/50	\$800.	
A2816A	16MB RAM add-on. (Two 8MB Simms)	Model 715/50	\$1,600.	
A2827A	64MB RAM add-on. (Two 32MB Simms)	Model 715/50	\$11,200.	

Internal Storage

A2800A	525MB Single-Ended SCSI-II disk Maximum of 2 disks per workstation	Model 715/50 with no more than one disk	\$2,200.	
A2801A	1GB Single-Ended SCSI-II disk Maximum of 2 disks per workstation	Model 715/50 with no more than one disk	\$3,850.	
A2802A	Add 1.4MB 3.5" Floppy Disk Drive	Model 715/50 with no other removable media device	\$525.	
A2803A	Add 600MB 5.25" CD ROM Drive	Model 715/50 with no other removable media device	\$1,050.	
A2274A	Add 2GB DDS Tape Drive	Model 715/50 with no other removable media device	\$2,625.	
(must order option)				
#AHV	Upgrade kit (mounting bracket for Model 715/50		N/C	
A2275A	Add 4 – 8 GB (with compression) DDS Tape Drive	Model 715/50 with no other removable media device	\$3,675.	
(must order option)				
#AHV	Upgrade kit (mounting bracket tray for Model 715/50		N/C	

MODEL 715/50 – ADD-ON OPTIONS (customer or field installed)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Graphics				
B2156B	PowerShade for HP-UX 9.0 3D surfaces rendering software, 1-user license-to-use	HP-UX 9.0	\$2,100.	
#AAH	4mm DDS tape		\$205.	
#AAU	CD-ROM Certificate		N/C	
EISA Interface <i>(Not available with 24-plane graphics subsystem)</i>				
25525B	EISA FAST Differential SCSI II Host Adaptor Connects fast differential SCSI II devices through EISA slot Includes a differential, low density terminator NOTE: Only the new version 25525B (not the model 25525A) is qualified for use on model 715/33, 715/50 and 725/50	Series 700 w/EISA	\$1,255.	
25560A	EISA HPIB Host Adaptor Connects HP-IB peripherals through EISA slot	Series 700 w/EISA Required HPIB extender connector (10834A) when used with a Model 715	\$1,255.	
25567A	EISA LAN/9000 – IEEE 802.3 Provides second ethernet LAN. Includes LAN hardware built in ThinMAU and BNC connector.	Series 700 w/EISA	\$1,465.	
#740	Add Thick MAU tap and 6 meter cable		\$415.	
#840	Add Ethertwist MAU and 1 meter cable		\$205.	
J2159A	EISA X.25 Link Provides network access via X.25	Series 700 w/EISA HP-UX 8.07 or greater	\$4,410.	\$27.
#1AT	Add RS232 cable		N/C	
#1AU	Add V.35 cable		N/C	
#1AW	delete Software Right-to-use and documentation (hardware only)		-\$1,200.	
J2165A	EISA 802.5 (IBM) Token Ring network Provides direct connection to any IEEE 802.5 Token Ring network	Series 700 w/EISA HP-UX 8.07 or greater	\$1,675.	
J2156A	EISA FDDI Link	Series 700 w/EISA	\$4,720.	\$33.
#1AW	Delete Software Right-to-use and documentation (hardware only)	HP-UX 8.07 or greater	-\$995.	
A2544A	Apollo Token Ring Adapter Provides Apollo Token Ring EISA Card, HP-UX Device Driver on DDS Tape, and Installation Documentation.	Series 700 w/EISA HP-UX 8.07 or greater	\$1,435.	
J2104A	ISDN BRI ISA/EISA Adapter Provides ISDN BRI ISA/EISA Card,	Series 700 w/EISA HP-UX 8.07 or greater	\$3,030.	
#AAH	Software on DDS Tape		N/C	
#AAU	CD-ROM Certificate		N/C	
#099	Add-on Software to use HP S700 as a non-dedicated Ethernet-to-ISDN Gateway for TCP/IP communications		\$1,375.	

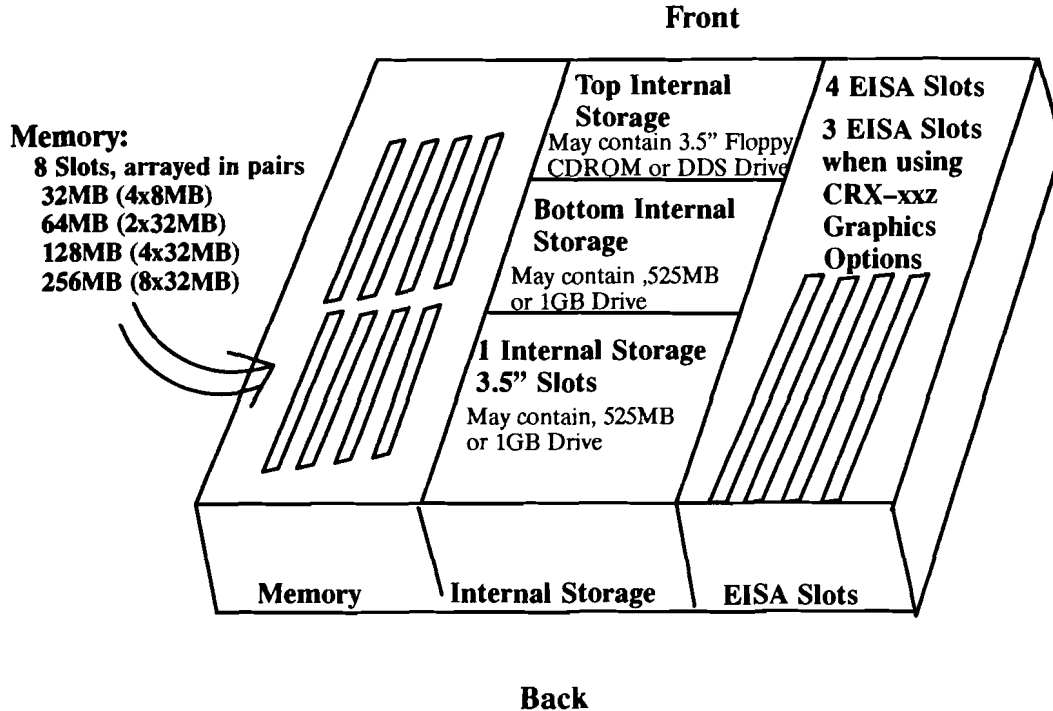
MODEL 725/50 PERFORMANCE DESKTOP WORKSTATIONS

System Standard Features

- 50MHz PA-RISC processor with integrated 50MHz floating point co-processor
- delivers 69 SPECmarks, 62 MIPS, and 13 MFLOPS
- configurable with 32 to 256 MB main memory
- configurable with a maximum of two internal 3.5" disks and one removable media device
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- external Single Ended SCSI II port (support for a total of up to 7 devices – including internal)
- supports up to 239.8GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with standard ThickNET AUI connector only. ThinNet and Ethertwist cabling require external transceivers available as add-on options
- CD-quality Audio input/output
- includes EISA bus (4 slot) (3 available slots on CRX-24, CRX24-Z and CRX-48Z systems)
- auto selecting power supply 115V/230V
- operating environment: HP-UX 9.0 Run-Time, 2 user license-to-use/ separate HP Visual User Environment License (1 user)
- documentation: Owner's Guides, Installation Guide, and General Usage manuals (HP-UX User's Guide, HP -VUE User's Guide, HP-VUE Quick Start Card contained in Localization Kit)

MODEL 725/50 SYSTEM

Options Diagram



MODEL 725/50 PA-RISC WORKSTATIONS – STANDARD CONFIGURATIONS

(support Factory Integrated Options)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
MODEL 725/50 GRAYSCALE WORKSTATIONS				
A2685A	19" grayscale monitor, 32MB RAM, one 525MB internal Single-Ended SCSI II disk, Available Options: ANN, ANY, UFN, 013, AT9, AT7, AMB, AM8, AMW, AMX, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0 Ethernet Kit	\$17,790.	\$717.
MODEL 725/50 COLOR 2D/3D WORKSTATION				
A2689A	19" color monitor, 32MB RAM, one 525MB internal Single-Ended SCSI II disk, Available Options: ANN, ANY, UFN, 013, AT9, AT7, AMB, AM8, AMW, AMX, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0 Ethernet Kit	\$20,390.	\$744.
MODEL 725/50 CRX-24 COLOR 2D/3D WORKSTATION				
A2691A	24 plane CRX color graphics, 19" color monitor, 32MB RAM, one 1GB internal Single-Ended SCSI II disk, Available Options: ANN, ANY, UFN, AT9, AT7, AMB, AM8, AMW, AMX, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0 Ethernet Kit	\$24,390.	\$891.
MODEL 725/50 CRX-24Z COLOR 2D/3D WORKSTATION				
A2692A	24 plane CRX color graphics with accelerator and Z-buffer, 19" color monitor, 32MB RAM, one 1GB internal Single-Ended SCSI II disk, PowerShade Software Available Options: ANN, ANY, UFN, AT9, AT7, AMB, AM8, AMW, AMX, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0 Ethernet Kit	\$29,390.	\$969.
MODEL 725/50 CRX-48Z COLOR 2D/3D WORKSTATION				
A2693A	24 plane double buffered CRX color graphics with accelerator and Z-buffer, 19" color monitor, 32MB RAM, 1GB internal Single-Ended SCSI II disk, PowerShade Software Available Options: ANN, ANY, UFN, AT9, AT7, AMB, AM8, AMW, AMX, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0 Ethernet Kit	\$34,390.	\$1122.

MODEL 725/50 – FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Memory <i>(Maximum of one factory integrated memory option per workstation)</i>				
#ANN	Add 32MB memory , for a total of 64MB (configured with eight 8MB Simms)		\$3,200.	
#ANY	Add 96MB memory , for a total of 128MB (configured with four 32MB Simms)		\$16,800.	
#UFN	Add 224MB memory , for a total of 256MB (configured with eight 32MB Simms)		\$39,200.	
Internal Storage				
#013	Replace 525MB Single-Ended SCSI-II disk drive with a 1GB Single-Ended SCSI-II disk drive <i>Maximum of two disks per workstation.</i>	Model 725/50 with a 525MB disk	\$1,650.	
#AT9	Add 525MB Single-Ended SCSI-II disk drive <i>Maximum of two disks per workstation.</i>	Model 725/50 with no more than one disk	\$2,200.	
#AT7	Add 1GB Single-Ended SCSI-II disk drive <i>Maximum of two disks per workstation.</i>	Model 725/50 with no more than one disk	\$3,850.	
#AMB	Add 1.4MB 3.5" SCSI-II floppy disk drive <i>Only one per system. May NOT be ordered concurrently with options AMB, AMW or AMX</i>		\$525.	
#AM8	Add 600MB 5.25" CD ROM SCSI-II drive <i>Only one per system. May NOT be ordered concurrently with options AMB, AMW or AMX</i>		\$1,050.	
#AMW	Add 2 GB 3.5" DDS SCSI-II tape drive <i>Only one per system. May NOT be ordered concurrently with options AMB, AM8 or AMX</i>		\$2,625.	
#AMX	Add 4-8 GB DDS SCSI-II tape drive w/ data compression <i>Only one per system. May NOT be ordered concurrently with options AMB, AM8 or AMW</i>		\$3,675.	

MODEL 725/50 – FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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Support *(Maximum of one warranty upgrade and installation)***#0S0 Hardware: Upgrades warranty to 1-year next-day**

on-site repair, support-line access, license-to-use updates.*

#0S1 Hardware: Upgrades warranty to 1-year 4-hour

on-site repair, support-line access, license-to-use updates.*

#0S2 Hardware: Upgrades warranty to 1-year next-dayon-site repair, Software Phone Assistance (HP-UX),
support-line access, license-to-use updates.***#0S3 Hardware: Upgrades warranty to 1-year 4-hour**on-site repair. Software Phone Assistance (HP-UX),
support-line access, license-to-use updates.***#0S4 Installation**

System installation, configuration and verification,

* Media & documentation updates available – see support section

Support Options for 725/50 Standard Configurations

Option price includes indicated level of support for standard configuration and all factory integrated options for the first year following delivery.

	0S0 Next Day	0S1 4 hour	0S2 Next Day phone sup.	0S3 4 hour phone sup.	0S4 Installation
A2685A	717	996	1233	1512	428
A2689A	744	1049	1260	1565	428
A2691A	891	1346	1407	1862	428
A2692A	969	1500	1485	2016	428
A2693A	1122	1807	1638	2323	428

MODEL 725/50 – FACTORY INTEGRATED CONFIGURATION MATRIX

Option Standard Configuration	Memory			Internal Storage						
	#ANN Add 32MB	#ANY Add 96MB	#UFN Add 224MB	#013 Replace 525MB w/1GB	#AT9 525MB Disk	#AT7 1GB Disk	#AMB 1.4MB Floppy	#AM8 600MB CDROM	#AMW 2GB DDS	#AMX 4-8GB DDS
A2685A 19" Grayscale, 32MB RAM, 525MB SE Disk	3200	16800	39200	1650	2200	3850	525	1050	2625	3675
A2689A 19" Color, 32MB RAM, 525MB SE Disk	3200	16800	39200	1650	2200	3850	525	1050	2625	3675
A2691A CRX-24 19", 32MB RAM, 1GB SE Disk	3200	16800	39200		2200	3850	525	1050	2625	3675
A2692A CRX-24Z, 19", 32MB RAM, 1GB SE Disk	3200	16800	39200		2200	3850	525	1050	2625	3675
A2693A CRX-48Z, 19", 32MB RAM, 1GB SE Disk	3200	16800	39200		2200	3850	525	1050	2625	3675

MODEL 725/50 – ADD-ON OPTIONS (customer or field installed)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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Ethernet Kit

Previous Series 700 workstations came with both ThinLAN (BNC) and a ThickLAN (AUI) connectors as standard. The Models 715/33, 715/50 and 725/50 offer only the ThickLAN (AUI) connector as standard.

The following ThinLAN and EtherTwist transceivers are available to accommodate these cabling alternatives..

A2670A	Add-on ThinLAN Ethernet transceiver		\$175.	
A2671A	Add-on EtherTwist transceiver		\$175.	

Memory See System Configuration Diagram for maximum memory constraints

A2815A	8MB RAM add-on. (Two 4MB Simms)	Model 725/50	\$800.	
A2816A	16MB RAM add-on. (Two 8MB Simms)	Model 725/50	\$1,600.	
A2827A	64MB RAM add-on. (Two 32MB Simms)	Model 725/50	\$11,200.	

Internal Storage

A2809A	525MB Single-Ended SCSI-II disk Maximum of 2 disks per workstation	Model 725/50 with no more than one disk	\$2,200.	
A2813A	1GB Single-Ended SCSI-II disk Maximum of 2 disks per workstation	Model 725/50 with no more than one disk	\$3,850.	
A2814A	Add 1.4MB 3.5" Floppy Disk Drive	Model 725/50 with no other removable media device	\$525.	
A2817A	Add 600MB 5.25" CD ROM Drive	Model 725/50 with no other removable media device	\$1,050.	
A2274A	Add 2GB DDS Tape Drive	Model 725/50 with no other removable media device	\$2,625.	
(must order option)				
	#AHW Upgrade kit (mounting bracket for Model 725/50			N/C
A2275A	Add 4 - 8 GB (with compression) DDS Tape Drive	Model 725/50 with no other removable media device	\$3,675.	
(must order option)				
	#AHW Upgrade kit (mounting bracket tray for Model 725/50			N/C

MODEL 725/50 – ADD-ON OPTIONS (customer or field installed)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Graphics				
B2156B	PowerShade for HP-UX 9.0 3D surfaces rendering software, 1-user license-to-use	HP-UX 9.0	\$2,100.	
#AAH	4mm DDS tape		\$205.	
#AAU	CD-ROM Certificate		N/C	
EISA Interface				
25525B	EISA FAST Differential SCSI II Host Adaptor Connects fast differential SCSI II devices through EISA slot Includes a differential, low density terminator NOTE: Only the new version 25525B (not the model 25525A) is qualified for use on model 715/33, 715/50 and 725/50	Series 700 w/EISA	\$1,255.	
25560A	EISA HPiB Host Adaptor Connects HP-IB peripherals through EISA slot	Series 700 w/EISA Required HPiB extender connector (10834A) when used with a Model 715	\$1,255.	
25567A	EISA LAN/9000 – IEEE 802.3 Provides second ethernet LAN. Includes LAN hardware built in ThinMAU and BNC connector.	Series 700 w/EISA	\$1,465.	
#740	Add Thick MAU tap and 6 meter cable		\$415.	
#840	Add Ethertwist MAU and 1 meter cable		\$205.	
J2159A	EISA X.25 Link Provides network access via X.25	Series 700 w/EISA HP-UX 8.07 or greater	\$4,410.	\$27.
#1AT	Add RS232 cable		N/C	
#1AU	Add V.35 cable		N/C	
#1AW	delete Software Right-to-use and documentation (hardware only)		-\$1,200.	
J2165A	EISA 802.5 (IBM) Token Ring network Provides direct connection to any IEEE 802.5 Token Ring network	Series 700 w/EISA HP-UX 8.07 or greater	\$1,675.	
J2156A	EISA FDDI Link	Series 700 w/EISA	\$4,720.	\$33.
#1AW	Delete Software Right-to-use and documentation (hardware only)	HP-UX 8.07 or greater	-\$995.	
A2544A	Apollo Token Ring Adapter Provides Apollo Token Ring EISA Card, HP-UX Device Driver on DDS Tape, and Installation Documentation.	Series 700 w/EISA HP-UX 8.07 or greater	\$1,435.	
J2104A	ISDN BRI ISA/EISA Adapter provides ISDN BRI ISA/EISA Card,	Series 700 w/EISA HP-UX 8.07 or greater	\$3,030.	
#AAH	Software on DDS Tape		N/C	
#AAU	CD-ROM Certificate		N/C	
#099	Add-on Software to use HP S700 as a non-dedicated Ethernet-to-ISDN Gateway for TCP/IP communications		\$1,375	

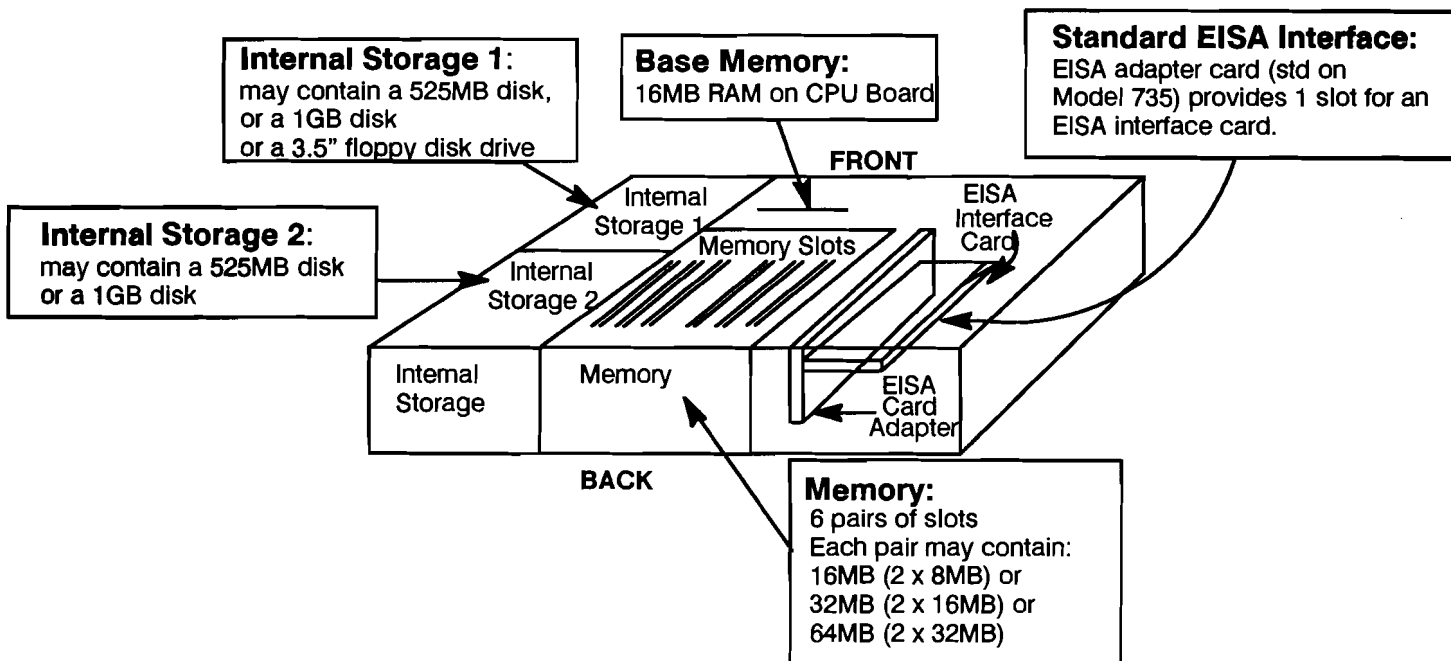
MODEL 735 PERFORMANCE DESKTOP WORKSTATIONS

System Standard Features

- 99MHz PA-RISC processor with integrated 99MHz floating point co-processor
- delivers 147 SPECmarks, 124 MIPS, and 40 MFLOPS
- configurable with 32MB to 400MB main memory
- configurable with a maximum of 2 internal 3.5" storage devices
- 2 asynchronous RS-232C ports
- 1 Centronics parallel port
- Fast-Wide SCSI II port (support for a total of up to 15 devices – including internal)
- Single-Ended SCSI II port (support for a total of up to 7 devices – including internal)
- supports up to 126GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with ThinNET (optional ThickNET)
- optional integrated FDDI (replaces standard Ethernet)
- CD-quality Audio input/output
- includes EISA bus (1 slot)
- auto selecting power supply 115V/230V
- operating environment: HP-UX 9.0 Run-Time, 2 user license-to-use/
separate HP Visual User Environment License (1 user)
- documentation: Owner's Guides, Installation Guide, and General Usage manuals
(HP-UX User's Guide, HP -VUE User's Guide, HP-VUE Quick Start Card
contained in Localization Kit)
- stand and labels for optional deskside use

MODEL 735 SYSTEM

Options Diagram



MODEL 735 PA-RISC WORKSTATIONS – STANDARD CONFIGURATIONS

(support Factory Integrated Options)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
MODEL 735 GRX GRAYSCALE WORKSTATIONS				
A2600A	GRX, 19" grayscale monitor, 32MB RAM, one 525MB internal Single-Ended SCSI II disk Available Options: AN8, AND, UFM, UFK, UFL, AT7, AMB, 008, 009, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0	\$34,690.	\$948.
A2659A	GRX, 19" grayscale monitor, 32MB RAM, one 1GB internal Single-Ended SCSI II disk Available Options: AN8, AND, UFM, UFK, UFL, 010, AT7, ATA, AMB, 008, 009, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0	\$36,340.	\$954.
MODEL 735 CRX COLOR 2D/3D WORKSTATIONS				
A2601A	CRX, 19" color monitor, 32MB RAM, one 525MB internal Single-Ended SCSI II disk Available Options: AN8, AND, UFM, UFK, UFL, AT7, AMB, 008, 009, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0	\$37,290.	\$993.
A2608A	CRX, 19" color monitor, 32MB RAM, one 1GB internal Single-Ended SCSI II disk Available Options: AN8, AND, UFM, UFK, UFL, 010, AT7, AT8, AMB, 008, 009, 007, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0	\$38,940.	\$984.
MODEL 735 CRX-24 COLOR 2D/3D WORKSTATION				
A2602A	24 plane CRX graphics, 19" color monitor, 32MB RAM, one 1GB internal Single-Ended SCSI II disk Available Options: AN8, AND, UFM, UFK, UFL, 010, AT7, AT8, AMB, 008, 009, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0	\$42,940.	\$1077.
MODEL 735 CRX-24Z COLOR 2D/3D WORKSTATION				
A2603A	24 plane CRX graphics with accelerator and Z-buffer, 19" color monitor, 32MB RAM, 1GB internal Single-Ended SCSI II disk, PowerShade Software Available Options: AN8, AND, UFM, UFK, UFL, 010, AT7, AT8, AMB, 008, 009, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0	\$47,940.	\$1155.
MODEL 735 CRX-48Z COLOR 2D/3D WORKSTATION				
A2609A	24 plane double buffered CRX graphics with accelerator and Z-buffer, 19" color monitor, 32MB RAM, one 1GB internal Single-Ended SCSI II disk, PowerShade Software Available Options: AN8, AND, UFM, UFK, UFL, 010, AT7, AT8, AMB, 008, 009, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0	\$52,940.	\$1308.
MODEL 735 MULTIPLE MONITOR WORKSTATION				
A2607A	Dual CRX board, two 19" color monitors, 32MB RAM, one 1GB internal Single-Ended SCSI II disk Available Options: AN8, AND, UFM, UFK, UFL, 010, AT7, AT8, AMB, 008, 009, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0	\$47,940.	\$1059.

MODEL 735 – FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Memory <i>(Maximum of one factory integrated memory option per workstation.)</i>				
#AN8	Add 16MB memory for a total of 48MB		\$2,000.	
#AND	Add 48MB memory for a total of 80MB		\$6,000.	
#UFM	Add 112MB memory for a total of 144MB		\$14,000.	
#UFK	Add 176MB memory for a total of 208MB		\$22,000.	
#UFL	Add 368MB memory for a total of 400MB (16Mbit DRAMS)		\$64,400.	
Internal Storage				
#010	Replace 1GB Single-Ended internal disk with 1GB Fast-Wide Internal disk <i>May NOT mix single-ended and fast-wide internal disks</i>	Model 735 system w/1GB internal disk	\$700.	
#AT7	Add one Single-Ended 1GB Internal SCSI II disk drive <i>Maximum of one option AT7 per workstation. May NOT be ordered concurrently with option 010, AMB, or AT8</i>	Model 735 system w/single 525MB or SE 1GB internal disk.	\$3,850.	
#AT8	Add Second Fast-Wide 1GB Internal SCSI II disk drive <i>Maximum of one option AT8 per workstation. May only be ordered with Option #010 May NOT be ordered concurrently with option AMB or AT7</i>	Model 735 system w/single 1GB FW disk #010	\$4,550.	
#AMB	Add 1.4MB 3.5" Single-Ended SCSI II floppy disk drive <i>Maximum of one option AMB per workstation. May NOT be ordered concurrently with option 010, AT7, AT8</i>	Model 735 with one single-ended disk	\$525.	
Networking <i>(Maximum of one factory integrated networking option per workstation.)</i>				
#008	Install LAN AUI Configuration (overrides the default ThinNET)		N/C	
#009	Install FDDI Configuration (overrides the default ThinNET)		\$2,000.	
Other				
#007	Delete Monitor & Graphics	Model 735 A2608A	-\$4,000.	

MODEL 735 – FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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Support *(Maximum of one warranty upgrade and installation)*

- #0S0 Hardware: Upgrades warranty to 1-year next-day**
on-site repair, support-line access, license-to-use updates.*
- #0S1 Hardware: Upgrades warranty to 1-year 4-hour**
on-site repair, support-line access, license-to-use updates.*
- #0S2 Hardware: Upgrades warranty to 1-year next-day**
on-site repair, Software Phone Assistance (HP-UX),
support-line access, license-to-use updates.*
- #0S3 Hardware: Upgrades warranty to 1-year 4-hour**
on-site repair, Software Phone Assistance (HP-UX),
support-line access, license-to-use updates.*
- #0S4 Installation**
System installation, configuration and verification,

* Media & documentation updates available – see support section

Support Options for 735 Standard Configurations

Option price includes indicated level of support for standard configuration and all factory integrated options for the first year following delivery.

	0S0 Next Day	0S1 4 hour	0S2 Next Day phone sup.	0S3 4 hour phone sup.	0S4 Installation
A2600A	948	1433	1596	2081	428
A2659A	954	1447	1602	2095	428
A2601A	993	1495	1641	2143	428
A2602A	1077	1668	1725	2316	428
A2603A	1155	1822	1803	2470	428
A2607A	1059	1630	1707	2278	428
A2608A	984	1481	1632	2129	428
A2609A	1308	2129	1956	2777	428

MODEL 735 – FACTORY INTEGRATED OPTIONS

Option Standard Configuration	Memory					Internal Storage				Other Options		
	#AN8 Add 16MB	#AND Add 48MB	#UFM Add 112MB	#UFK Add 176MB	#UFK Add 368MB	#010 Replace SE w/FW	#AT7 1GB SE Disk	#AT8 1GB FW Disk	#AMB 1.4MB Floppy	#008 LAN AUI	#009 FDDI	#007 Delete Monitor & Graphics
A2600A 19" Grayscale, 32MB RAM, 525MB SE Disk	2000	6000	14000	22000	64400		3850		525	N/C	2000	
A2659A 19" Grayscale, 32MB RAM, 1GB SE Disk	2000	6000	14000	22000	64400	700	3850	4550	525	N/C	2000	
A2601A 19" Color, 32MB RAM, 525MB SE Disk	2000	6000	14000	22000	64400		3850		525	N/C	2000	
A2608A 19" Color, 32MB RAM, 1GB SE Disk	2000	6000	14000	22000	64400	700	3850	4550	525	N/C	2000	-\$4000
A2602A CRX-24 19", 32MB RAM, 1GB SE Disk	2000	6000	14000	22000	64400	700	3850	4550	525	N/C	2000	
A2603A CRX-24Z, 19", 32MB RAM, 1GB SE Disk	2000	6000	14000	22000	64400	700	3850	4550	525	N/C	2000	
A2609A CRX-48Z, 19", 32MB RAM, 1GB SE Disk	2000	6000	14000	22000	64400	700	3850	4550	525	N/C	2000	
A2607A DUAL CRX, 19", 32MB RAM, 1GB SE Disk \$TBD	2000	6000	14000	22000	64400	700	3850	4550	525	N/C	2000	

MODEL 735 – ADD-ON OPTIONS (customer or field installed)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Memory				
A2512A	32 MB RAM add-on (2x16MB Boards)		\$4000.	
A2646A	64 MB RAM add-on (16Mbit DRAMS) (2x32MB Boards)		\$11,200.	
Internal Storage <i>(Requires HP-UX 9.0)</i>				
A2565A	Add 525MB Single-Ended SCSI II Disk Drive	Model 735 with one Single-Ended Disk	\$2,200.	
A2563A	Add 1.0GB Single-Ended SCSI II Disk Drive	Model 735 with one Single-Ended Disk	\$3,850.	
A2566A	Add 1.0GB Fast-Wide SCSI II Disk Drive	Model 735 with one Fast Wide Disk	\$4,550.	
A1984A	Add 3.5" 1.4MB Single-Ended Floppy Disk Drive	Model 735 with one Single-Ended Disk	\$525.	
CPU Integrated Networking Upgrade				
A2665A	FDI Daughter Card Kit Replaces factory integrated Ethernet (ThickNET or ThinNET) with FDI networking daughter card.	HP-UX 9.0	\$2,500.	
A2658A	ThickNET Daughter Card Kit Replaces factory integrated Ethernet (ThinNET or FDDI) with ThickNET networking daughter card.	HP-UX 9.0	\$700.	
A2831A	ThinNET Daughter Card Kit Replaces factory integrated Ethernet (ThickNET or FDDI) with ThinNET networking daughter card.	HP-UX 9.0	\$700.	
Graphics				
B2156B	PowerShade for HP-UX 9.0 3D surfaces rendering software, 1-user license-to-use	HP-UX 9.0	\$2,100.	
#AAH	4mm DDS tape		\$205.	
#AAU	CD-ROM Certificate		N/C	
EISA Interface				
25525A	EISA FAST Differential SCSI II Host Adaptor Connects fast differential SCSI II devices through EISA slot Includes a differential, low density terminator	Series 700 w/EISA	\$1,255.	
25560A	EISA HP-IB Host Adaptor Connects HP-IB peripherals through EISA slot	Series 700 w/EISA	\$1,255.	
25567A	EISA LAN/9000 – IEEE 802.3 Provides second ethernet LAN. Includes LAN hardware built in ThinMAU and BNC connector.	Series 700 w/EISA	\$1,465.	
#740	Add Thick MAU tap and 6 meter cable		\$415.	
#840	Add Ethertwist MAU and 1 meter cable		\$205.	
J2159A	EISA X.25 Link Provides network access via X.25	Series 700 w/EISA HP-UX 8.07 or greater	\$4,410.	\$27.
#1AT	Add RS232 cable		N/C	
#1AU	Add V.35 cable		N/C	
#1AW	delete Software Right-to-use and documentation (hardware only)		-\$1,200.	
J2165A	EISA 802.5 (IBM) Token Ring network Provides direct connection to any IEEE 802.5 Token Ring network	Series 700 w/EISA HP-UX 8.07 or greater	\$1,675.	

MODEL 735 – ADD-ON OPTIONS (customer or field installed)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
<u>EISA Interface</u>				
J2156A	FDDI/9000 for Series 700 provides FDDI single attach station	Series 700 w/EISA HP-UX 8.07 or greater	\$4,720.	\$33.
#1AW	Delete Software Right-to-use and documentation		-\$995.	
A2544A	Apollo Token Ring Adapter Provides Apollo Token Ring EISA Card, HP-UX Device Driver on DDS Tape, and Installation Documentation.	Series 700 w/EISA HP-UX 8.07 or greater	\$1,435.	
J2104A	ISDN BRI ISA/EISA Adapter Provides ISDN BRI ISA/EISA Card,	Series 700 w/EISA HP-UX 8.07 or greater	\$3,030.	
#AAH	Software on DDS Tape		N/C	
#AAU	CD-ROM Certificate		N/C	
#099	Add-on Software to use HP S700 as a non-dedicated Ethernet-to-ISDN Gateway for TCP/IP communications		\$1,375.	

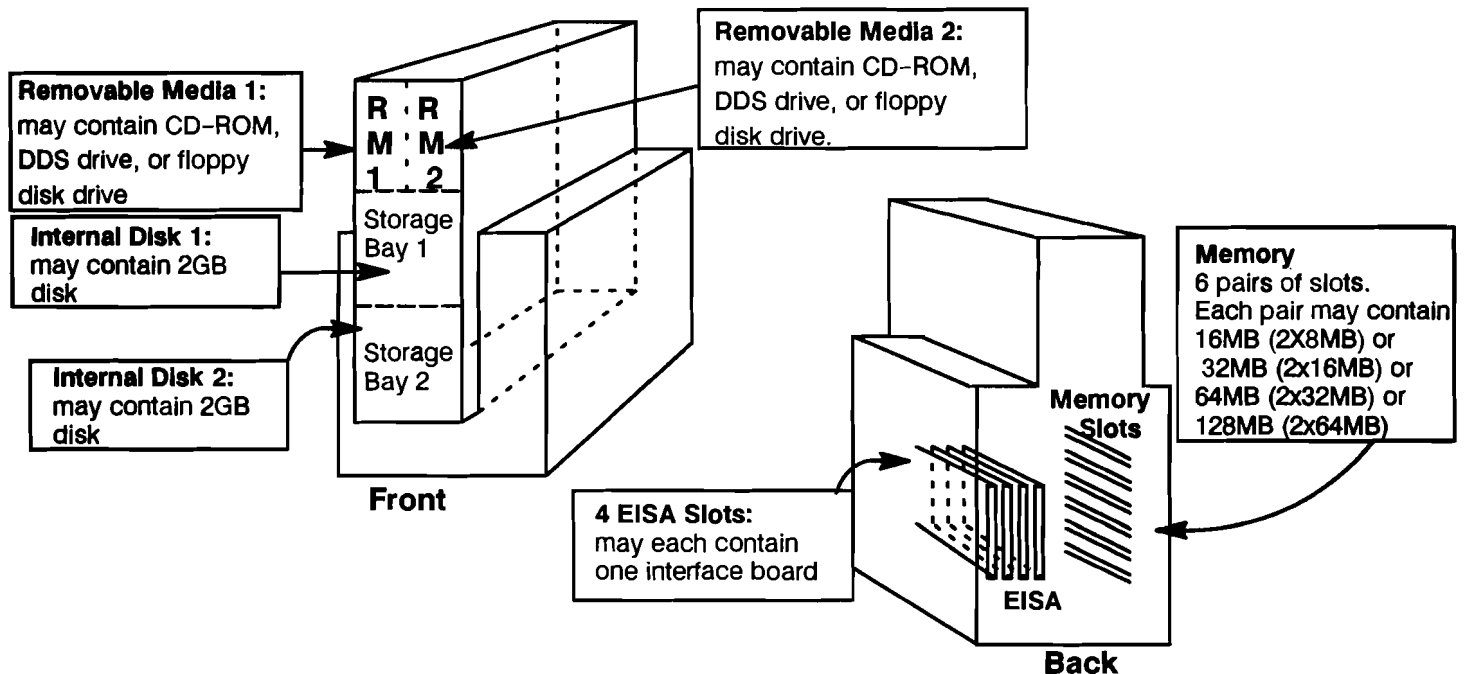
MODEL 755 DESKSIDE WORKSTATIONS

System Standard Features

- 99MHz PA-RISC processor with integrated 99MHz floating point co-processor
- delivers 147 SPECmarks, 124 MIPS, and 40 MFLOPS
- configurable with 64 to 768 MB main memory
- configurable with a 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 RS232C ports
- 1 Centronics parallel port
- Single-Ended SCSI II port (support for a total of up to 7 devices – including internal)
- Fast-Wide SCSI II port (support for a total of up to 15 devices – including internal)
- supports up to 297GB disk capacity
- IEEE 802.3 Ethernet LAN interface configured with ThinNET
- optional integrated FDDI
- CD-quality Audio input/output
- includes EISA bus (4 slots)
- auto selecting power supply 115V/230V
- operating environment: HP-UX 9.0 Run-Time, 2 user license-to-use/
separate HP Visual User Environment License (1 user)
- documentation: Owner's Guides, Installation Guide, and General Usage manuals
(HP-UX User's Guide, HP -VUE User's Guide, HP-VUE Quick Start Card
contained in Localization Kit)

MODEL 755 SYSTEM

Options Diagram



MODEL 755 DESKSIDE WORKSTATIONS—STANDARD CONFIGURATIONS

(support Factory Integrated Options)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
MODEL 755 CRX COLOR 2D/3D WORKSTATION				
A2551A	19" color monitor, 64MB RAM, one 2.0GB internal Single-Ended SCSI II disk Available Options: ANQ, ANW, ANX, UFD, UFE, 011, AT6, ATA, AM8, AMX, AMB, ALE, ALF, ALG, ALQ, AL9, 009, 007, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0	\$58,890.	\$1539.
MODEL 755 CRX-24 COLOR 2D/3D WORKSTATION				
A2552A	24 plane CRX color graphics, 19" color monitor, 64MB RAM, one 2.0GB internal Single-Ended SCSI II disk Available Options: ANQ, ANW, ANX, UFD, UFE, 011, AT6, ATA, AM8, AMX, AMB, ALE, ALF, ALG, ALQ, AL9, 009, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0	\$62,890.	\$1632.
MODEL 755 CRX-24Z COLOR 2D/3D WORKSTATION				
A2553A	24 plane CRX color graphics with accelerator and Z-buffer, 19" color monitor, 64MB RAM, one 2.0GB internal Single-Ended SCSI II disk, PowerShade Software Available Options: ANQ, ANW, ANX, UFD, UFE, 011, AT6, ATA, AM8, AMX, AMB, ALE, ALF, ALG, ALQ, AL9, 009, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0	\$67,890.	\$1812.
MODEL 755 CRX-48Z COLOR 2D/3D WORKSTATION				
A2650A	24 plane double buffered CRX color graphics with accelerator and Z-buffer, 19" color monitor, 64MB RAM, one 2.0GB internal Single-Ended SCSI II disk, PowerShade Software Available Options: ANQ, ANW, ANX, UFD, UFE, 011, AT6, ATA, AM8, AMX, AMB, ALE, ALF, ALG, ALQ, AL9, 009, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0	\$72,890.	\$1863.
MODEL 755 MULTIPLE MONITOR WORKSTATION				
A2652A	Dual CRX board, two 19" color monitors, 64MB RAM, one 2.0GB internal Single-Ended SCSI II disk Available Options: ANQ, ANW, ANX, UFD, UFE, 011, AT6, ATA, AM8, AMX, AMB, ALE, ALF, ALG, ALQ, AL9, 009, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit HP-UX 9.0	\$67,890.	\$1629.

MODEL 755 – FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Memory <i>(only one memory option may be ordered per workstation)</i>				
#ANQ	Add 64MB memory for a total of 128MB (configured with four 32MB boards)		\$8,000.	
#ANW	Add 192MB memory for a total of 256MB (configured with eight 32MB boards)		\$24,000.	
#ANX	Add 320MB memory for a total of 384MB (configured with twelve 32MB boards)		\$40,000.	
#UFD	Add 448MB memory for a total of 512MB (16Mbit DRAMS) (configured with eight 64MB boards)		\$78,400.	
#UFE	Add 704MB memory for a total of 768MB (16Mbit DRAMS) (configured with twelve 64MB boards)		\$123,200.	
Internal Storage				
#011	Replace 2GB Single-Ended Internal disk with 2GB Fast-Wide disk <i>May NOT mix single-ended and fast-wide internal disks</i>	Model 755 system w/2GB internal disk	\$1,400.	
#AT6	Add Second 2.0GB Internal Single-Ended SCSI II disk drive <i>Maximum of one option AT6 per workstation.</i>	Model 755 System w/single 2.0GB SE internal disk	\$6,900.	
#ATA	Add Second 2.0GB Internal Fast-Wide SCSI II disk drive <i>Must order Option #011 Maximum of one option ATA per workstation.</i>	Model 755 System w/single 2.0GB FW internal disk	\$8,300.	
#AM8	Add 600MB CD ROM Drive	Model 755 with available half height bay	\$1,050.	
#AMX	Add 4mm DDS Tape Drive with data compression <i>May not be ordered concurrently with option AMB</i>	Model 755 with available half height bay	\$3,675.	
#AMB	3.5" 1.4MB Floppy Disk Drive <i>Maximum of one option AMB per workstation. May NOT be ordered concurrently with option AMX</i>	Model 755 with available half height bay	\$525.	
EISA				
#ALE	Add EISA SCSI II Host Adapter		\$1255.	
#ALF	Add EISA HP-IB Host Adapter		\$1255.	
#ALG	Add EISA LAN/9000		\$1465.	
#ALQ	Add EISA FDDI/9000		\$4720.	
Networking				
#AL9	Select LAN AUI Configuration (overrides the default ThinNET)		N/C	
#009	Add FDDI Configuration		\$2,000.	
Other				
#007	Delete Monitor & Graphics	A2551A	-\$4,000.	

MODEL 755 – FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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Support *(Maximum of one warranty upgrade and installation)*

- #0S0 Hardware: Upgrades warranty to 1-year next-day**
on-site repair, support-line access, license-to-use updates.*
- #0S1 Hardware: Upgrades warranty to 1-year 4-hour**
on-site repair, support-line access, license-to-use updates.*
- #0S2 Hardware: Upgrades warranty to 1-year next-day**
on-site repair, Software Phone Assistance (HP-UX),
support-line access, license-to-use updates.*
- #0S3 Hardware: Upgrades warranty to 1-year 4-hour**
on-site repair, Software Phone Assistance (HP-UX),
support-line access, license-to-use updates.*
- #0S4 Installation**
System installation, configuration and verification,

* Media & documentation updates available – see support section

Support Options for 755 Standard Configurations

Option price includes indicated level of support for standard configuration and all factory integrated options for the first year following delivery.

	0S0 Next Day	0S1 4 hour	0S2 Next Day phone sup.	0S3 4 hour phone sup.	0S4 Installation
A2551A	1539	2177	2439	3077	428
A2552A	1632	2364	2532	3264	428
A2553A	1812	2724	2712	3624	428
A2650A	1863	2820	2763	3720	428
A2652A	1629	2350	2529	3250	428

MODEL 755 – FACTORY INTEGRATED OPTIONS

Memory Only one memory option may be ordered per workstation.						Internal Storage Maximum of two internal disks and two removable media device per workstation						EISA Interface Options				Other Options		
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Option	#ANQ	#ANW	#ANX	#UFD	#UFE	#O11	#AT6	#ATA	#AMB	#AM8	#AMX	#ALE	#ALF	#ALG	#ALQ	#AL9	#009	#007
	Add 64 MB	Add 192 MB	Add 320 MB	Add 448 MB	Add 704 MB	Replace SE w/FW	2GB SE Disk	2GB FW Disk	1.4MB Floppy	600MB CD-ROM	DDS DC	EISA SCSI Adapter	EISA HP-IB Adapter	EISA LAN Card	EISA FDDI	LAN AUI	FDDI	Del Mntr./ Grphc
Standard Configuration																		
A2551A 19" Color, 64MB RAM, 2GB SE Disk	8000	24000	40000	78400	123200	1400	6900	8300	525	1050	3675	1255	1255	1465	4720	N/C	2000	-4000
A2552A CRX-24 19", 64MB RAM, 2GB SE Disk	8000	24000	40000	78400	123200	1400	6900	8300	525	1050	3675	1255	1255	1465	4720	N/C	2000	
A2553A CRX-24Z, 19", 64MB RAM, 2GB SE Disk	8000	24000	40000	78400	123200	1400	6900	8300	525	1050	3675	1255	1255	1465	4720	N/C	2000	
A2650A CRX-48Z, 19", 64MB RAM, 2GB SE Disk	8000	24000	40000	78400	123200	1400	6900	8300	525	1050	3675	1255	1255	1465	4720	N/C	2000	
A2652A DUAL CRX, 19", 64MB RAM, 2GB SE Disk	8000	24000	40000	78400	123200	1400	6900	8300	525	1050	3675	1255	1255	1465	4720	N/C	2000	

MODEL 755 – ADD-ON OPTIONS (customer or field installed)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Memory				
A2513A	64MB RAM add-on (2x32MB Boards)	Model 755	\$8000.	
A2518A	128MB RAM add-on (2x64MB Boards)	Model 755	\$22,400.	
Internal Storage (maximum of two internal disks per workstation)				
A2556A	Add 2.0GB Single-Ended SCSI II Disk Drive	Model 755 with one Single-Ended Disk	\$6,900.	
A2564A	Add 2.0GB Fast-Wide SCSI II Disk Drive	Model 755 with one Fast-Wide Disk	\$8,300.	
A1985A	600MB CD-ROM	Model 755 with available half-height bay	\$1,050.	
A2274A	2.0GB DDS Tape Drive	Model 755 with available half-height bay	\$2,625.	
#AHS	upgrade kit for Models 750/755		N/C	
A2275A	4mm DDS Tape Drive with data compression	Model 755 with available half-height bay	\$3,675.	
#AHS	upgrade kit for Models 750/755		N/C	
A1968A	3.5" 1.4MB Floppy Disk Drive	Model 755 with available half-height bay	\$525.	
CPU Integrated Networking Upgrade				
A2654A	FDDI Daughter Card Kit Adds FDDI networking daughter card.	HP-UX 9.0	\$2,500.	
Graphics				
B2156B	PowerShade for HP-UX 9.0 3D surfaces rendering software, 1-user license-to-use	HP-UX 9.0	\$2,100.	
#AAH	4mm DDS tape		\$205.	
#AAU	CD-ROM Certificate		N/C	
EISA Interface				
25525B	EISA FAST Differential SCSI II Host Adaptor Connects fast differential SCSI II devices through EISA slot Includes a differential, low density terminator NOTE: Only the new version 25525B (not the model 25525A) is qualified for use on model 755	Series 700 w/EISA	\$1,255.	
25560A	EISA HP-IB Host Adaptor Connects HP-IB peripherals through EISA slot.	Series 700 w/EISA	\$1,255.	
25567A	EISA LAN/9000 for Series 700 provides second Ethernet LAN. Includes LAN hardware built in ThinMAU and BNC connector.	Series 700 w/EISA	\$1,465.	
#740	Add ThickMAU, tap, and 6 M AUI cable		\$415.	
#840	Add EtherTwist MAU and 1 M cable		\$205.	
J2156A	FDDI/9000 for Series 700 provides FDDI single attach station	Series 700 w/EISA HP-UX 8.07 or greater	\$4,720.	
#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	Series 700 w/EISA HP-UX 8.07 or greater	\$4,410.	
#1AT	RS 232 Cable		N/C	
#1AU	V.35 Cable		N/C	
#1AW	Delete Software Right-to-use and documentation		-\$1200.	

MODEL 755 – ADD-ON OPTIONS (customer or field installed)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
<u>EISA Interface</u>				
J2165A	IEEE 802.5 Token Ring 9000 for Series 700 provides direct connection to any IEEE 802.5 Token Ring network	Series 700 w/EISA HP-UX 8.07 or greater	\$1,675.	
#UJ9	Provides software on DDS (4mm DAT) tape		N/C	
#0B0	Delete manual set		-\$36.	
A2544A	Apollo Token Ring Adapter Provides Apollo Token Ring EISA Card, HP-UX Device Driver on DDS Tape, and Installation Documentation.	Series 700 w/EISA HP-UX 8.07 or greater	\$1,435.	
J2104A	ISDN BRI ISA/EISA Adapter Provides ISDN BRI ISA/EISA Card,	Series 700 w/EISA HP-UX 8.07 or greater	\$3,030.	
#AAH	Software on DDS Tape		N/C	
#AAU	CD-ROM Certificate		N/C	
#099	Add-on Software to use HP S700 as a non-dedicated Ethernet-to-ISDN Gateway for TCP/IP communications		\$1,375.	

UPGRADES, EXTERNAL STORAGE AND PERIPHERALS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
CPU UPGRADES				
A2647A	Model 705 to Model 710 CPU upgrade Exchange CPU must be returned to factory.	Model 705 color 16" or 19"	\$3,675.	N/C
A2805A	Model 715/33 to Model 715/50 CPU upgrade Exchange CPU must be returned to factory.	Model 715/33 color 16" or 19"	\$5,990.	
A2605A	Upgrades a Model 720 to a Model 735 (board upgrade) Exchange CPU must be returned to factory.	Model 720 with EISA upgrade HP-UX 9.0	\$11,665.	
#008	Install LAN AUI Configuration (overrides the default ThinNET)		n/c	
#009	Install LAN FDDI Configuration (overrides the default ThinNET)		\$2,000	
A2606A	Upgrades a Model 730 to a Model 735 (board upgrade) Exchange CPU must be returned to factory.	Model 730 HP-UX 9.0	\$6,000.	
#008	Install LAN AUI Configuration (overrides the default ThinNET)		n/c	
#009	Install LAN FDDI Configuration (overrides the default ThinNET)		\$2,000	
A2248A	Model 750 to Model 755 CPU upgrade Includes 755 CPU and audio/adaptor boards Exchange CPU must be returned to factory.	Model 750 HP-UX 9.0	\$6,000.	
#AL9	Select LAN AUI Configuration (overrides the default ThinNET)			
A1957A	Upgrades a Model 720 to a Model 730 (board upgrade) Exchange CPU must be returned to factory.	Model 720 with EISA upgrade	\$9,450.	
MONITOR UPGRADES				
A2094A	19" 1280X1024, 72Hz Sony Color Monitor	Series 700 with 19" color graphics	\$3,400.	
GRAPHICS UPGRADES				
GRAPHICS UPGRADES FOR MODELS 720, 730, 735, 750 AND 755				
98768A	CRX subsystem with monitor Upgrades a Series 700 to a CRX color graphics workstation. Includes graphics interface and 19" 1280x1024, 72Hz monitor.	Model 720, 730, 735, 750 or 755	\$9,450.	
A2269A	Dual CRX subsystem with two monitors. Upgrades Model 750 or Model 755 Dual CRX workstation to a <i>QUAD</i> CRX (four monitor) configuration. May also be used to upgrade a Model 720, 730, 735, 750 or 755 to a Dual CRX workstation. Includes Dual CRX graphics interface and two 19" 280x1024, 72Hz monitors. Quad CRX precludes use of Audio or integrated FDDI on Model 755. (EISA FDDI available).	Model 750 or 755 Dual CRX for Quad Model 720, 730, 735, 750, 755 for Dual	\$17,850.	\$195.
A2270A	CRX-24 subsystem with monitor Upgrades a Model 750 or Model 755 CRX-24 system to a Dual CRX-24 (two monitors) configuration. Includes CRX-24 graphics interface and 19" 1280x1024, 72Hz monitor. May also be used to upgrade Model 720, 730, 735, 750 or 755 to CRX-24 workstations. Dual CRX-24 precludes use of Audio or integrated FDDI on Model 755. (EISA FDDI available)	Model 750 or 755 CRX-24 Workstation for Dual CRX-24 Model 720, 730 735, 750, 755 for CRX-24	\$15,750.	\$165.
A2271A	CRX-24 subsystem without monitor Upgrades a Model 720, 730, 735, 750, or 755 CRX workstation to a CRX-24 configuration. Includes CRX-24 graphics interface. Return of CRX graphics interface required.	Model 720, 730, 735, 750 or 755 CRX.	\$6,000.	\$165.
A2272A	CRX-24 subsystem with monitor Identical to A2270A. Upgrades a Series 700 PVRX workstation to a CRX-24 configuration. Return of PVRX graphics subsystem required.	Model 720, 730, 735, 750 or 755 PVRX	\$6,000.	N/C



PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
GRAPHICS UPGRADES				
A2666A	CRX-48Z subsystem without monitor Upgrades a Model 735 or 755 CRX-24Z workstation to a CRX-48Z configuration. Includes CRX-48Z subsystem, interface, and cables. Return of CRX-24Z graphics subsystem required.	Model 735 or 755 CRX-24Z.	\$12,000.	
A2667A	CRX-48Z subsystem with monitor Upgrades a Model 735 or 755 PVRX workstation to a CRX-48Z configuration. Includes CRX-48Z subsystem, interface, 19" 1280x1024, 72Hz monitor, and cables. Return of PVRX graphics subsystem and 60 Hz monitor required.	Model 735 or 755 PVRX.	\$12,000.	
A1454A	24 bit Z buffer and graphics accelerator Upgrades a Model 720, 730, 735, 750 or 755 CRX-24 workstation to a CRX-24Z configuration.	Model 720, 730, 735, 750 or 755 CRX-24	\$6,000.	\$78.
GRAPHICS UPGRADES FOR MODEL 715 AND MODEL 725				
A2673A	CRX-24 subsystem without monitor Upgrades a Model 715 or Model 725 19" color workstation to a CRX-24 configuration. Includes CRX-24 graphics interface. Occupies the EISA slot in a 715 or an EISA slot in a 725.	Model 715 or 725 with 19" color monitor and available EISA slot.	\$4,000.	
A2674A	24 bit Z buffer and graphics accelerator Upgrades a Model 715 or Model 725 CRX-24 workstation to a CRX-24Z configuration.	Model 715 or 725 CRX-24	\$5,000.	
A2675A	CRX-48Z subsystem without monitor Upgrades a Model 715/50 or Model 725 19" color workstation to a CRX-48Z configuration. Includes CRX-48Z subsystem, interface and cables. Occupies the EISA slot in a 715 or an EISA slot in a 725.	Model 715/50 or 725 with 19" color monitor and available EISA slot.	\$14,000.	
POWERSHADE SOFTWARE FOR ALL SERIES 700 COLOR WORKSTATIONS				
B2156B	PowerShade for HP-UX 9.0 3D Surfaces rendering software, 1-user license-to-use	Series 700 Color workstation and HP-UX 9.0.	\$2,100.	\$200.
#AAH	4mm DDS tape		\$205.	
#AAU	CD-ROM Certificate			
MEMORY UPGRADES				
A2668A	Upgrades Model 720 with 32MB memory Includes revised CPU which permits use of 2X memory.	Model 720	\$4,000.	
A2562A	Upgrades Model 720 with 64MB memory Includes revised CPU which permits use of 2X memory.	Model 720	\$8,000.	
A2521A	Upgrades Model 720 with 96MB memory Includes revised CPU which permits use of 2X memory.	Model 720	\$12,000.	
A2522A	Upgrades Model 720 with 128MB memory Includes revised CPU which permits use of 2X memory.	Model 720	\$16,000.	
A2669A	Upgrades Model 730 with 32MB memory Includes revised CPU which permits use of 2X memory.	Model 730	\$4,000.	
A2567A	Upgrades Model 730 with 64MB memory Includes revised CPU which permits use of 2X memory.	Model 730	\$8,000.	
A2531A	Upgrades Model 730 with 96MB memory Includes revised CPU which permits use of 2X memory.	Model 730	\$12,000.	
A2532A	Upgrades Model 730 with 128MB memory Includes revised CPU which permits use of 2X memory.	Model 730	\$16,000.	
A2533A	Upgrades Model 750 with 256MB memory	Model 750	\$32,000.	
A2534A	Upgrades Model 750 with 384MB memory	Model 750	\$48,000.	



PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
EXTERNAL STORAGE				
<i>Note: When ordering external storage you must order the appropriate cables and terminators, & localization and manuals.</i>				
Mass Storage Mini Towers – Fast Differential SCSI II:				
C2482A	1350SX,1.3 GB Fast SCSI II disk drive in expansion box. 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	\$5,850.	\$81.
C2492A	Add one 1.3GB SCSI II disk upgrade for 1350SX. Adds 1.3GB SCSI II disk to C2482A. <i>May order 1 or 2 per 1350SX storage system. See Configuration section of this guide</i>	C2482A disk storage systems	\$5,350.	\$66.
Installation Options for upgrades to Model 1350SX (must order one per upgrade):				
#0D1	Factory Installation Into C2482A disk storage system		N/C	
#0DF	Customer Installation Into C2482A		\$100.	
#0DG	Field service Installation Into C2482A		\$200.	
#ABA	U.S. Localization & Manuals		N/C	
Mass Storage Mini Towers – Single-Ended SCSI II:				
C2217T	Model 1350SE Mass Storage System with 1.3GB SCSI II drive. To add disk or removable media, order upgrades listed below. <i>(NOTE: To receive manuals, order localization option.) See Configuration section of this guide</i>	Series 700, SCSI cable and terminator see cable chart	\$5,650.	\$153.
C2474T	1.3GB SCSI II disk upgrade for 1350SE, <i>(NOTE: To receive manuals, order localization option.)</i>	C2217T, install option	\$5,150	\$137.
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.	\$215.
C2298T	2.0–8.0GB 3.5" SCSI II DDS Tape w/data compression upgrade for 1350SE <i>(NOTE: To receive manuals, order localization option.)</i>	C2217T, install option	\$3,650	\$215.
C2293T	600MB CD-ROM upgrade for 1350SE <i>(NOTE: To receive manuals, order localization option.)</i>	C2217T, install option	\$1,250.	\$153.
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	\$63.
Installation Options for upgrades to Model 1350SE (must order one per upgrade):				
#0D1	Factory Installation Into C2217T disk storage system		N/C	
#0DF	Customer Installation Into C2217T		\$100.	
#0DG	Field service Installation Into C2217T		\$200.	
#ABA	U.S. Localization & Manuals		N/C	
Mass Storage Mini Towers with new mechanisms – Fast-Wide SCSI II:				
<i>(Requires Series 700 with HP-UX 9.0. See cable chart, Must Order Opt. 001)</i>				
C3034T	SCSI Mass Storage System with two fast-wide SCSI-II 2.0 GB disks	Model 735 or 755	\$16,600	
C3035T	SCSI Mass Storage System with four fast-wide SCSI-II 1.0GB disks	Model 735 or 755	\$17,850	
C3036T	SCSI Mass Storage System with seven fast-wide SCSI-II 1.0GB disks	Model 735 or 755	\$30,250	
Expansion Kits: – for any of the above new fast-wide mini tower configurations				
C3037U	Add fast-wide 1.0 GB Disk	Model 735 or 755	\$4,700.	
C3038U	Add fast-wide 2.0 GB Disk	Model 735 or 755	\$6,900.	
Installation Options for upgrades to Fast-Wide Mini Towers (must order one per upgrade):				
#001	HP workstation firmware for installation into C3034T–C3038T		NC	
#0DG	Field Service Installation into C3034T–3036T		\$200	
#ABA	U.S. Localization & Manuals		NC	



PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Mass Storage Mini Towers with new mechanisms – Single-Ended SCSI II: (Requires Series 700 with HP-UX 9.0. See cable chart)				
C3020T	SCSI Mass Storage System with 1.0GB disk and 2.0 GB 4mm DDS tape		\$6,650.	
C3021T	SCSI Mass Storage System with 2.0GB disk and 2.0 GB 4mm DDS tape Tape Drive w/Compression		\$10,550.	
C3023T	SCSI Mass Storage System with 2.0GB disk		\$7,100.	
C3024T	SCSI Mass Storage System with two 2.0GB disks		\$13,800.	
Expansion Kits: – for any of the above new single ended minitower configurations				
C3027U	Add 1.0 GB Disk		\$4,000.	
C3028U	Add 2.0 GB Disk		\$6,900.	
C2293U	Add 600 MB CD ROM		\$1,250.	\$153.
C2297U	Add 2.0 GB 4mm DDS Tape Drive		\$2,650.	\$215.
C2298U	Add 4mm DDS Tape Drive with Compression		\$3,650	\$215.
C2294T	Add 650 MB Magneto/Optical Drive		\$5,400.	\$63.
Installation Options for upgrade to Single-Ended Mini Towers (must order one):				
#001	HP Workstation Firmware for Installation Into C3020T–C3024T		NC	
#ODG	Field Service Installation Into (C3020T–C3024T)		\$200	
#ABA	U.S. Localization & Manuals		NC	

DISK ARRAYS –FAST/DIFFERENTIAL SCSI II*Note: Requires Series 700 with HP-UX 8.07 or greater. See cable chart*

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.	\$222.
C2472J	One 420MB SCSI II disk upgrade to Model 420SA See Configuration section of this guide,	C2425JK	\$2,750.	\$42.
Installation Options for upgrade to Model 420SA (must order one):				
#0D1	Factory Installation Into C2425JK disk storage system		N/C	
#0DF	Customer Installation Into C2425JK		\$100.	
#0DG	Field service Installation Into C2425JK		\$200.	
C2427JK	Model 1350SA 5x1.3GB SCSI II disk array for Series 700, includes RAID 0, 0/1, 3, 5, and independent mode utility package. Note: To add 1.3GB disk, order C2474J. (see Configuration section of this guide)	Series 700 with EISA SCSI II adapter and SCSI cable (see chart) must order localization	\$37,975.	\$285.
C2474J	One 1.3GB SCSI II disk upgrade to Model 1350SA	C2427JK	\$6,350	\$51.
Installation Options for upgrade to Model 1350SA (must order one):				
#0D1	Factory Installation Into C2427JK disk array		N/C	
#0DF	Customer Installation Into C2427JK disk array		\$100.	
#0DG	Field service Installation Into C2427JK disk array		\$200.	



PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE	
SCSI STANDALONE REMOVABLE MEDIA					
CD ROM – Single-Ended SCSI II:					
A1999A	600MB CD-ROM Drive standalone <i>Must specify power cord</i>	Series 700, SCSI cable and terminator see cable chart	\$1,365.	\$63.	
Power Cord options #900 through #919 (below)			N/C		
#900	United Kingdom	#901	Australia, New Zealand	#902	European
#903	North America, Taiwan, Korea	#906	Switzerland	#912	Denmark
#917	Republic of South Africa, India	#918	Japan	#919	Israel
4mm DDS – Single-Ended SCSI II:					
C1520B	2.0GB 4mm DDS Tape standalone includes SCSI cable (K2296), terminator, documentation and data utility	Series 700, HP-UX 8.07	\$3,150. N/C	\$84.	
C1521B	4mm DDS Tape with data compression standalone includes SCSI cable (K2296), terminator, documentation and data utility	Series 700, HP-UX 8.07	\$4,150 N/C	\$99.	
<u>MAGNETO OPTICAL STORAGE – SINGLE-ENDED SCSI II:</u>					
C1701C	650MB High Performance Multi Function Optical Drive	Series 700, SCSI cable – see cable chart HP-UX 8.0/8.07/9.0	\$4,995.	\$75.	
C1708C	10 GB Multifunction Optical Disk Library Includes installation disk	Series 700 see cable chart HP-UX 9.0	\$10,095.		
C1700C	20 GB Multifunction Optical Disk Library Includes 32 optical disks	Series 700, SCSI cable – see cable chart HP-UX 8.07/9.0	\$29,500.	\$351.	
C1704C	57 GB Multifunction Optical Disk Library Includes 88 optical disks	Series 700, SCSI cable – see cable chart HP-UX 8.07/9.0	\$71,100.	\$789.	
C1705C	94 GB Multifunction Optical Disk Library Includes 144 optical disks	Series 700, SCSI cable – see cable chart HP-UX 8.07/9.0	\$96,500.	\$996.	
7980S	1600/6250 bpi 1/2" 9-track Tape Drive	Series 700, SCSI cable – see cable chart HP-UX 8.07/9.0	\$18,500.	\$150.	



HP 700/RX RISC X Stations

Standard Features

- RISC X Window processor base unit
- Built in DRAM and VRAM
- PS/2 style 3-button mouse
- 4 Mbytes of user memory (DRAM)
- PC-101(PS/2) style keyboard
- Monitor cable, power cords, manuals

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
X STATIONS				
C2701B	HP 700/RX MI Monochrome X Station Base Unit 90,000 x stones, 4MB DRAM, .25MB VRAM Available options 1A2, AN7, W03	Localization Kit	\$2,695.	\$12.
C2704A	HP 700/RX CI Color X Station Base Unit 52,000 x stones, 4MB DRAM, 1MB VRAM Available options 1A2, AN7, W03	Localization Kit	\$2,895.	\$12.
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	Localization Kit	\$3,895.	\$12.
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	Localization Kit	\$2,995.	\$42.
C2705A	HP 700/RX 14Ci 14" Color X Station 14" 1024x768 multi-synch display, 52,000 x stones, 4MB DRAM, 1MB VRAM Available options 1A2, AN7, W03	Localization Kit	\$2,995.	\$21.
C2706A	HP 700/RX 16Ci 16" Color X Station 16" 1024x768 75Hz display, 52,000 x stones, 4MB DRAM, 1MB VRAM Available options 1A2, AN7, W03	Localization Kit	\$3,995.	\$36.
C2749A	HP 700/RX 19Ga 19" Grayscale X Station 19" 1280x1024 93,000 x stones, Available options 1A2, AN7, W03	Localization Kit	\$3,995.	
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	Localization Kit	\$4,695.	\$36.
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	Localization Kit	\$5,995.	\$87.
C3226A	HP 700/RX Model 19Cs 19" Color X Station 19" 1280x1024 display, 93,000 x stone Available options 1A2, AN7, W03	Localization Kit	\$6,295.	

X STATION FACTORY INTEGRATED OPTIONS

#1A2	Delete PC style keyboard, mouse, and keyboard cable	-\$60.
#AN7	Delete 2MB DRAM	-\$200.
#W03	Convert one year return to HP warranty to 90 day on-site	N/C

Terminal Localization Kit Localized options #ABA through #AR0 (below)
(Must Order With Every Terminal)

#ABA	U.S. English: English Keyboard, N. American power cord	#ABU	U.K.: English Keyboard, U.K. power cord
#ABC	Canadian French: English Keyboard, N. American power cord	#ABW	Belgian/Dutch: English Keyboard, Belgian power cord
#ABD	German: German Keyboard, German power cord	#ABY	Danish: English Keyboard, Danish power cord
#ABE	European/Spanish: English Keyboard, Spanish power cord	#ARZ	Italian: English Keyboard, Italian power cord
#ABF	European French: English Keyboard, French power cord	#ABO	Taiwanese: English Keyboard, Taiwanese power cord
#ABG	N.Amer. Keyboard, Australian power cord	#AB1	Korean: English Keyboard, Korean power cord
#ABJ	Katakana: English Keyboard, Japanese power cord	#AB4	N.Amer. Keyboard, Singapore/Hong Kong power cord
#ABN	Norwegian: English Keyboard, Norwegian power cord	#ACC	N.Amer. Keyboard, U.K. power cord
#ABP	Swiss/German: German Keyboard, Swiss power cord	#ACD	N.Amer. Keyboard, Swiss power cord
#ABS	Swedish: English Keyboard, Swedish power cord	#ACE	N.Amer. Keyboard, Danish power cord
#AR0	Kanji: English Keyboard, Japanese power cord	#ACF	N.Amer. Keyboard, Japanese power cord



PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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HP 700/RX RISC X STATION SOFTWARE

C2716A	HP 700/RX X-Server software for Series 700 Systems		\$695.	
#AAH	Provides software on DDS format tape		N/C	
#AAF	Provides software on CD-ROM		N/C	
C2722A	HP 700/RX X-Server software for Series 700 Systems Kanji		\$695.	
#AAH	Provides software on DDS format tape		N/C	
C2725A	HP 700/RX Flash ROM Card (English Version)		\$400.	
C2726A	HP 700/RX Flash ROM Card (Kanji Version)		\$995.	
<i>Note: If a flash ROM card is required then one card must be ordered for each HP 700/RX station.</i>				

MEMORY

C2321A	HP 700/RX 2 Mbyte Memory Module (SIMM)		\$200.	
C2322A	HP 700/RX 4 Mbyte Memory Module (SIMM)		\$400.	
C2323A	HP 700/RX 8 Mbyte Memory Module (SIMM)		\$800.	

Note: Each HP 700/RX stations comes standard with 4 Mbytes of DRAM (2 Mbytes factory-installed and 2 Mbytes customer-installable). All stations can be optionally expanded up to a maximum of 18 Mbytes in increments of 6 Mbytes, 10 Mbytes or 18 Mbytes. When ordering memory, identical memory pairs are only supported with 2 available SIMM slots.

With the latest version of the HP 700/RX X-server software (rev B.04) a minimum configuration of 6 to 10 Mbytes of memory is required to run the Motif window manager (mwm), terminal emulators (xterm, hpterm), or HP VUE/RX as local clients in the HP 700/RX station.

TERMINALS

C1064A	HP 700/96 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>	Requires cable 24542G , (order from HP Apollo Direct Channel) localization option	\$895.	\$32.
C1064G	HP 700/96 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>	Requires cable 24542G (order from HP Apollo Direct Channel) localization option	\$895.	\$32.
C1064W	HP 700/96 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>	Requires cable 24542G (order from HP Apollo Direct Channel) localization option	\$895.	\$32.

Terminal Localization Kit Localized options #ABA through #AB1 (below)
(Must Order With Every Terminal)

N/C

#ABA	U.S. English
#ABW	Belgian Dutch
#ABM	Latin Spanish
#ABD	German
#ABY	Danish
#ABP	Swiss German
#ABF	European French
#ABO	Taiwan
#ABS	Swedish
#ABJ	Katakana

#ABK	ICON
#ABC	French Canadian
#ABX	Finnish
#ABN	Norwegian
#ABE	European
#ABZ	Italian
#ABQ	Swiss French
#ABH	Dutch
#AB1	Korean
#ABU	UK



PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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LASER PRINTERS

33481A	LaserJet IIP printer 4ppm, RS232 Centronics interfaces.	Requires cable see cable chart	\$1,595.	\$80.
33459A	LaserJet IID printer 8ppm with dual tray duplex, RS232/422, Centronics interfaces.	Requires cable see cable chart	\$3,595.	
33491A	LaserJet IIISI printer 17ppm with dual 500-sheet, RS232/422, Centronics interfaces. <i>Note: excepts MIO TCP/IP JetDirect card</i>	Requires cable see cable chart	\$5,495.	
33449A	HP LaserJet III printer with RS232-C and Centronics parallel interfaces.	Requires cable see cable chart	\$2,395.	\$192.

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.	\$40.
#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.	\$48.
#1AX	HP PaintJet XL color graphics printer with RS232-C and Centronics parallel interfaces.		N/C	
C1645A	HP PaintJet XL 300 color graphics printer 300 DPI Supports HP-GL/2, HP-GL, and HP-RTL <i>Note: excepts MIO TCP/IP JetDirect card</i>	Requires cable see cable chart	\$3,495.	
C2114A	DeskJet 500 C color Ink Jet printer.	Requires cable	\$779.	

IMPACT PRINTERS

2562C	Line Matrix printer <i>Must order option #049 or #053</i>	Requires cable see cable chart	\$5,777.	\$441.
#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.	\$477.
#049	RS232-C interface subsystem.		\$207.	
#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.	\$1,827.
#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.	\$1,926.
#049	RS232-C interface subsystem.		\$398.	
#053	Centronics interface subsystem.		\$385.	
C2354A	Impact printer - 840 lpm	Requires cable	\$12,340.	



PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
PLOTTERS				
C2847A	HP DesignJet 600, A1/D size mono. plotter Supports HP-GL/2, HP-GL, and HP-RTL <i>Note: excepts MIO TCP/IP JetDirect card</i>	Requires cable see cable chart	\$8,495.	
C2848A	HP DesignJet 600, A0/E size mono. plotter Supports HP-GL/2, HP-GL, and HP-RTL <i>Note: excepts MIO TCP/IP JetDirect card</i>	Requires cable see cable chart	\$9,995.	
7440A	HP ColorPro plotter for A-size. <i>Must specify option #001.</i>	Requires cable see cable chart	\$1,395.	\$32.
#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.	\$64.
#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.	\$128.
#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.	
7575A	HP DraftPro DXL plotter for A through D-size, 8-pen plotter. RS232-C interface standard.	Requires cable see cable chart	\$4,595.	
7576A	HP DraftPro EXL plotter for A through E-size, 8-pen plotter. RS232-C interface standard.	Requires cable see cable chart	\$5,995.	
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.	
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.	
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.	
Input Devices (HP-UX) or HP-HIL Input Devices				
46084B	HP-HIL ID Module.		\$200.	
46085B	HP-HIL Control Dial Module. 9 user definable knobs		\$1,520.	
46086A	HP-HIL button box with 32 keys		\$1,015.	
46087C	HP-HIL Digitizer, ANSI A/ISO A4 size. Includes tip-switch stylus.		\$920.	\$48.
46088C	HP-HIL Digitizer, ANSI B/ISO A3 size. Includes tip-switch stylus.		\$1,475.	\$48.
46090C	HP-HIL Digitizer, ANSI A/ISO A4 size. Includes 4-button cursor with crosshair.		\$920.	\$48.
46091C	HP-HIL Digitizer, ANSI B/ISO A3 size. Includes 4-button cursor with crosshair.		\$1,475.	
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.	
46060B	HP-HIL 3 button mouse		\$180.	
M1309A	HP-HIL 3 button Trackball input device.		\$513.	
SPTL-2003NA	Spaceball 2003 3D input device		\$1,595.	



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 3 SCSI II connector types recommended for use with the workstations and SCSI II peripherals listed in this guide:

- 1.) 50 pin High Density Thumb Screw connector – for attachment to single-ended and fast differential SCSI II port on Series 700
- 2.) 68 pin High Density Thumb Screw connector – for attachment to fast-wide SCSI II port on Model 735/755 and Disk Arrays.
- 3.) 50 pin Low Density Bail Lock connector – for attachment to external HP SCSI II peripheral devices except Disk Arrays.

The cable required depends upon the two devices being connected. The **first external device** will be connected to the SPU, so the cable should be the High Density Thumb Screw either 50 or 68 pins. **Subsequent SCSI II devices** are attached to the first device, the cable may be one with low density connectors on both ends, except when connecting one or more disk arrays. See table to determine the correct cable for the particular configuration.

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. Disk Arrays count as one device.
- 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
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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). HP recommends ordering 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.

Fast Differential Extension Cables
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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>U. S. LCP</u>
C2900A	3M	M to F	\$100.
C2901A	5M	M to F	\$110.
C2902A	10M	M to F	\$150.
C2903A	20M	M to F	\$200.



SCSI-II CABLING AND TERMINATORS FOR THE SERIES 700

TO									
CONNECTING FROM	Storage Box	Storage Box	CD ROM	4mm DAT *	Mag Optic	Tape Drive	Storage Box	Disk Array	Storage Box
	Single-Ended SCSI II C2217T UX 8.0 Only	Single-Ended SCSI II C302xT	Single-Ended SCSI II Stand alone A1999A	Single-Ended SCSI II C1520B C1521B	Single-Ended SCSI II C170xC	Single-Ended SCSI II 1/2" 9 track 7980S	Fast SCSI II C2482A UX 8.0 Only	Fast SCSI II C2425JK C2427JK	Fast-Wide SCSI II C3034T, C3035T, C3036T
Connector Type	LDBL	LDBL	LDBL	LDBL	LDBL	LDBL	LDBL	HDT568	HDT568
705/10/20/30/50 * Single-Ended SCSI II Running HP-UX 8.x	K2296 .9m K2297 1.5m K2291 Term.		K2296 .9m K2297 1.5m K2291 Terminator						
Series 700 Single-Ended SCSI II Running HP-UX 9.0			For last HP peripheral, order a terminator						
Series 700 (EISA) Fast SCSI II Running UX 8.x or 9.0							K2296 .9m K2297 1.5m	C2906A 2m C2907A 5m C2916A 20m C2905A Term	
Models 735, 755 Fast-Wide SCSI-II Running HP-UX 9.0								C2924A 2.5m C2911A .9m C2905A Term C2925A 10m.	C2924A 2.5m C2926A 20m C2911A .9m C2905A Term
Storage Box Single-Ended SCSI II C2217T									
Storage Box Single-Ended SCSI II C302xT									
CD ROM Single-Ended SCSI II A1999A Stand Alone									
4mm DAT Tape Drive Single-Ended SCSI II C1520B C1521B									
Magneto-Optical Stor. Single-Ended SCSI II C170xC									
1/2" 9 Track Tape Dr. Single-Ended SCSI II 7980S			For last HP peripheral, order a terminator						
Storage Box Fast SCSI II C2482A							92222A .5m (1.6ft) 92222B 1m (3.3ft) 92222C 2m (6.6ft) K2291 Terminator		
Disk Array Fast SCSI II C2425JK C2427JK								92222A .5m 92222B 1m 92222C 2m	C2915A 1m C2905A Term.
Storage Box Fast Wide SCSI II C3034T, C3035T, C3036T								C2915A 1m	C2911A .9m C2905A Term
									C2924A 2.5m C2911A .9m C2905A Term C2925A 10m.



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



CONFIGURATION NOT SUPPORTED
Fast SCSI II will not work with 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 single-ended and fast differential SCSI-II Bus.
Order one terminator per chain. (15 device limit on fast-wide bus).

LDBL - 50 pin Low Density Bail-Lock
HDT550 - 50 pin High Density Thumbscrew
HDT568 - 68 pin High Density Thumbscrew



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



Model 705 Desktop Workstation
.....

- 35MHz PA-RISC processor and 35MHz floating point processor
- Delivers 34 SPECmarks, 35 MIPS, and 8 MFLOPS with HP-UX 8.07
- Delivers 39.5 SPECmarks, 40 MIPS, and 8.4 MFLOPS with HP-UX 9.0
- 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 or 9.0 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 with HP-UX 8.07
- Delivers 56.5 SPECmarks, 57.9 MIPS, and 12.2 MFLOPS with HP-UX 9.0
- 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 or 9.0 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 with 8.07
- Delivers 66.5 SPECmarks, 57.9 MIPS, and 17.9 MFLOPS with 9.0
- 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 or 9.0 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

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 with 8.07
- Delivers 86.6 SPECmarks, 76.7 MIPS, and 23.7 MFLOPS with 9.0
- 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 or 9.0 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 with 8.07
- Delivers 86.6 SPECmarks, 76.7 MIPS, and 23.7 MFLOPS with 9.0
- 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 or 9.0 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 8.07/9.0 Run-Time Environment Key Standard Features:

- HP-UX 8.07/9.0 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
- Run-Time support for:
Network License Server (NetLS)
Network Computing System (NCS)
Applications using:
Starbase Graphics Library
Starbase Display List
Shared libraries
Applications built on OSF Motif and
X Window



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-buffered)
- 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

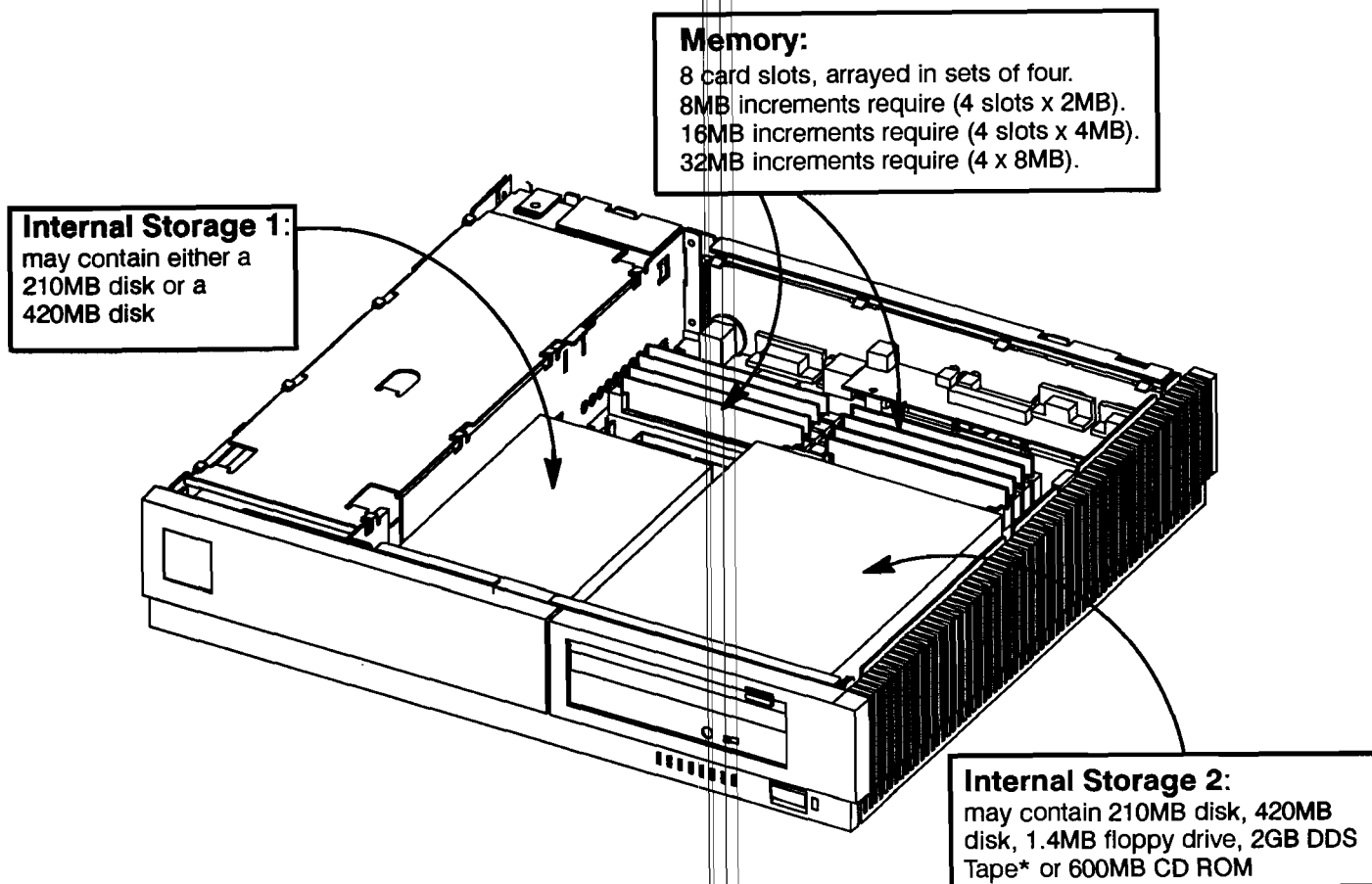
MODEL 705 PA-RISC DESKTOP WORKSTATION

System Standard Features

- 35MHz PA-RISC processor and 35MHz floating point processor
- Delivers 34 SPECmarks, 35 MIPS, and 8 MFLOPS with HP-UX 8.07
- Delivers 39.5 SPECmarks, 40 MIPS, and 8.4 MFLOPS with HP-UX 9.0
- 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 & 9.0*)
- 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 or 9.0 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



*Supported with HP-UX 8.07 & 9.0



HEWLETT
PACKARD

Workstation Systems Group

MODEL 705 PA-RISC WORKSTATIONS – STANDARD CONFIGURATIONS

(supports Factory Integrated Options)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
MODEL 705 DISKLESS WORKSTATIONS:				
A2289A	19" greyscale monitor, 16MB RAM, diskless May be ordered with Factory Integrated options: 001, AN4, AN8, AND, AM0, AMK, AMB, AM8, AMW, AL9, ODJ, ODK, OS0, OS1, OS2, OS3, OS4	Localization Kit	\$6,180.	\$612.
A2648A	16" color monitor, 16MB RAM, diskless May be ordered with Factory Integrated options: AN4, AN8, AND, AMK, AMB, AM8, AMW, AL9, ODJ, ODK, OS0, OS1, OS2, OS3, OS4	Localization Kit	\$9,330.	\$606.
A2649A	19" color monitor, 16MB RAM, diskless May be ordered with Factory Integrated options: AN4, AN8, AND, AMK, AMB, AM8, AMW, AL9, ODJ, ODK, OS0, OS1, OS2, OS3, OS4	Localization Kit	\$10,400.	\$654.

MODEL 705 – FACTORY INTEGRATED OPTIONS

Memory

#001	Delete 8MB memory, total of 8MB, factory integrated. Not available on model 705 color systems May NOT be ordered concurrently with options AN4, AN8, AND, AM0, AMK, AMB, AMW, or AM8.	Model 705 Grayscale	–\$800.
#AN4	Add 8MB memory, total of 24MB, factory integrated. Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options AN8, AND or 001 . NOTE: 24MB memory uses all 8 memory slots.		\$800.
#AN8	Add 16MB memory, total of 32MB, factory integrated. Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options AN4, AND or 001 .		\$1,600.
#AND	Add 48MB memory, total of 64MB, factory integrated. Maximum of one factory integrated memory option per workstation.. May NOT be ordered concurrently with options AN4, AN8 or 001 .		\$4,800.

Internal Storage

#AM0	Add 210MB SCSI-II disk drive, factory integrated. Not available on model 705 color systems Maximum of one option AM0 per workstation. May NOT be ordered with option 001	Model 705 Grayscale diskless and 16MB RAM	\$2,000.
#AMK	Add 420MB SCSI-II disk drive, factory integrated. May order one or two per workstation. May NOT be ordered concurrently with options AM0 or 001 .	Model 705 diskless and 16MB RAM	\$2,200.
#AMB	Add 1.4MB 3.5" SCSI-II floppy disk drive, factory integrated. May NOT be ordered concurrently with options AM8, AMW, or 001	Model 705 with 16MB RAM and no more than one disk	\$525.
#AMW	Add 2 GB 3.5" DDS SCSI-II tape drive, factory integrated. May NOT be ordered concurrently with options AMB, AM8, or 001 .	Model 705 with 16MB RAM and no more than one disk	\$2,625.
#AM8	Add 600MB 5.25" CD ROM SCSI-II drive, factory integrated. May NOT be ordered concurrently with options AMB, AMW, or 001 .	Model 705 with 16MB RAM and no more than one disk	\$1,050.

MODEL 705 – FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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Other

#AL9	Factory select LAN AUI (ThickNet) configuration. This option overrides default ThinNET Ethernet connection.	External Transceiver	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	\$79.	
#0DK	HP-UX 9.0 Run-Time Instant Ignition, 2-user license. Pre-loaded and pre-configured HP-UX 9.0 Run-Time Environment.	Requires at least 420MB disk Available Dec. 1, 1992	\$79.	

Support *(Maximum of one warranty upgrade and installation)*

#0S0	Hardware: Upgrades warranty to 1-year next-day on-site repair, support-line access, license-to-use updates.*
#0S1	Hardware: Upgrades warranty to 1-year 4-hour on-site repair, support-line access, license-to-use updates.*
#0S2	Hardware: Upgrades warranty to 1-year next-day on-site repair, Software Phone Assistance (HP-UX), support-line access, license-to-use updates.*
#0S3	Hardware: Upgrades warranty to 1-year 4-hour on-site repair. Software Phone Assistance (HP-UX), support-line access, license-to-use updates.*
#0S4	Installation System installation, configuration and verification,

* Media & documentation updates available – see support section

Support Options for 705 Standard Configurations

Option price includes indicated level of support for standard configuration and all factory integrated options for the first year following delivery.

705	0S0 Next Day	0S1 4 hour	0S2 Next Day phone sup.	0S3 4 hour phone sup.	0S4 Installation
A2289A	612	809	1128	1325	428
A2648A	606	770	1122	1286	428
A2649A	654	866	1170	1382	428



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

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
<u>Upgrade</u>				
A2647A	Model 705 to Model 710 CPU upgrade Exchange CPU must be returned to factory.	Model 705 color 16" or 19"	\$3,675.	
<u>Memory</u>				
A2216A	8MB RAM add-on. (Consisting of 4 x 2MB boards) See System Configuration Diagram for maximum memory constraints	Model 705	\$800.	\$12.
A2217A	16MB RAM add-on. (Consisting of 4 x 4MB boards) See System Configuration Diagram for maximum memory constraints	Model 705	\$1,600.	\$24.
A2218A	32MB RAM add-on. (Consisting of 4 x 8MB boards) See System Configuration Diagram for maximum memory constraints	Model 705	\$3,200.	\$48.
<u>Internal Storage</u>				
<i>NOTE: Requires minimum of 16MB of memory.</i>				
A2219A	210MB Internal SCSI-II disk <i>Not available on color systems</i>	Model 705 diskless systems	\$2,000.	\$42.
A2221A	420MB Internal SCSI-II disk	Model 705 with no more than one disk	\$2,200.	\$75.
A2223A	Add 1.4MB 3.5" Floppy Disk Drive	Model 705 with no more than one disk	\$525.	\$15.
A2224A	Add 600MB 5.25" CD ROM Drive	Model 705 with no more than one disk	\$1,050.	\$54.
A2274A	Add 2GB DDS Tape Drive <i>Must be ordered with option AHR</i>	Model 705 with no more than one disk and HP-UX 8.07	\$2,625.	\$81.
A2275A	Add 4mm DDS-DC Tape Drive (with data compression) <i>Must be ordered with option AHR</i>	Model 705 with no more than one disk and HP-UX 8.07	\$3,675.	\$90.
#AHR	Upgrade Kit for Model 705 and 710		N/C	

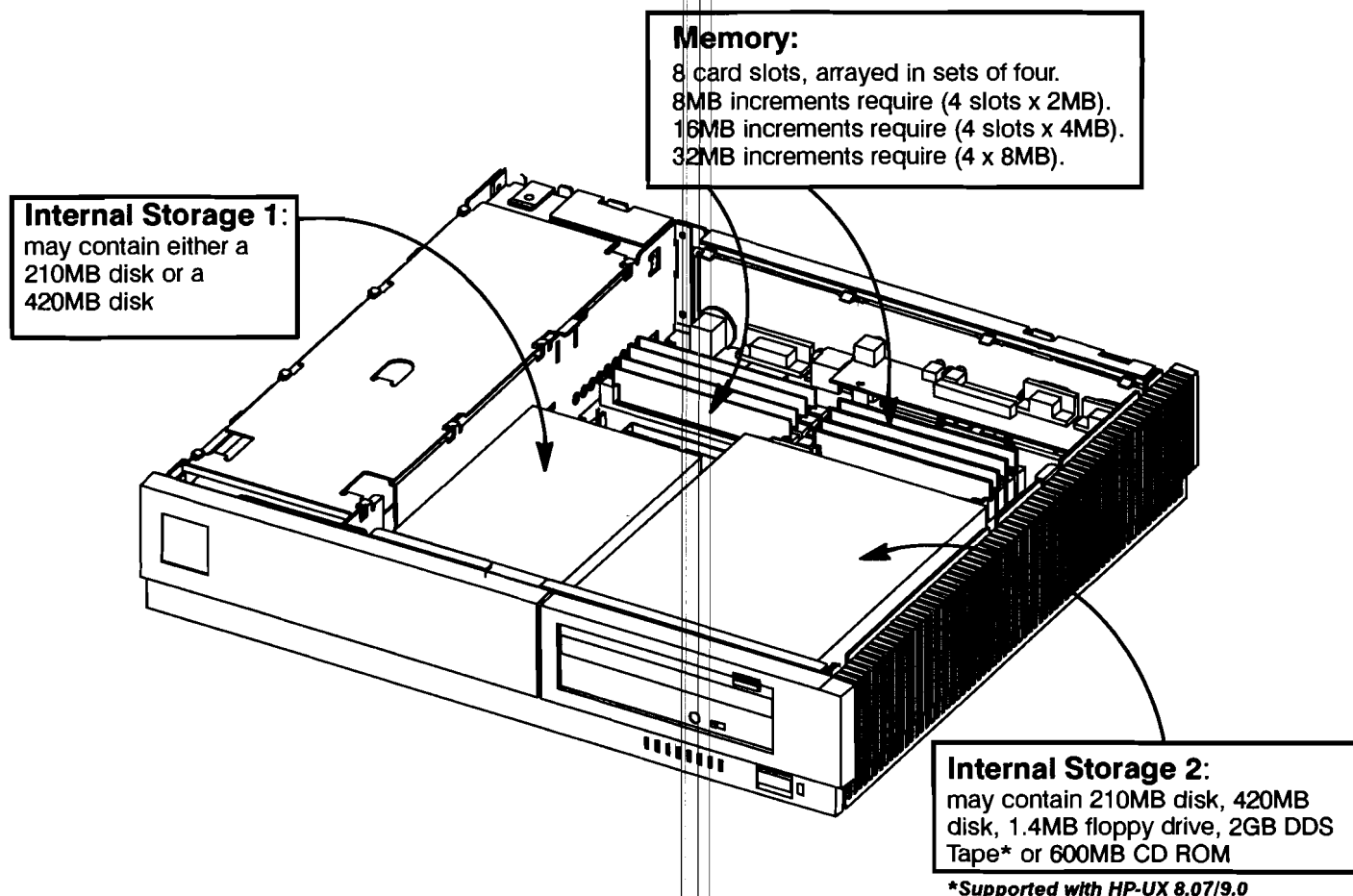
MODEL 710 PA-RISC DESKTOP WORKSTATION

System Standard Features

- 50MHz PA-RISC processor and 50MHz floating point processor
- Delivers 49.7 SPECmarks, 57.9 MIPS, and 12.2 MFLOPS with HP-UX 8.07
- Delivers 56.5 SPECmarks, 57.9 MIPS, and 12.2 MFLOPS with HP-UX 9.0
- 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 & 9.0*)
- 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 or 9.0 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



MODEL 710 PA-RISC WORKSTATIONS – BUNDLED CONFIGURATIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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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	\$13,100.	\$627.
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	\$12,550.	\$612.

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	\$14,650.	\$606.
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	\$15,700.	\$654.
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	\$20,450.	\$750.
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 & 9.0)</i>	Localization Kit	\$20,450.	\$756.

MODEL 710 – 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, 0DK	Localization Kit	\$9,860.	\$624.
A2210A	16" color monitor, 16MB RAM, diskless May be ordered with Factory Integrated options: AN4, AN8, AND, AM0, AMK, AMB, AM8, AMW, AL9, 0DJ, 0DK	Localization Kit	\$11,950.	\$606.
A2213A	19" color monitor, 16MB RAM, diskless May be ordered with Factory Integrated options: AN4, AN8, AND, AM0, AMK, AMB, AM8, AMW, AL9, 0DJ, 0DK	Localization Kit	\$13,000.	\$666.

MODEL 710 – FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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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>		\$800.	
#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>		\$1,600.	
#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>		\$4,800.	

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.	
#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	\$2,200.	
#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	\$525.	
#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	\$2,625.	
#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	\$1,050.	

Other

#AL9	Factory select LAN AUI (ThickNet) configuration. <i>This option overrides default ThinNET Ethernet connection.</i>	External Transceiver	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	\$79.	
#0DK	HP-UX 9.0 Run-Time Instant Ignition, 2-user license <i>Pre-loaded and pre-configured HP-UX 9.0 Run-Time Environment.</i>	Requires at least 420MB disk Available Dec. 1, 1992	\$79.	

Support (*Maximum of one warranty upgrade and installation*)

#0S0	Hardware: Upgrades warranty to 1-year next-day on-site repair, support-line access, license-to-use updates.*			
#0S1	Hardware: Upgrades warranty to 1-year 4-hour on-site repair, support-line access, license-to-use updates.*			
#0S2	Hardware: Upgrades warranty to 1-year next-day on-site repair, Software Phone Assistance (HP-UX), support-line access, license-to-use updates.*			
#0S3	Hardware: Upgrades warranty to 1-year 4-hour on-site repair, Software Phone Assistance (HP-UX), support-line access, license-to-use updates.*			
#0S4	Installation System installation, configuration and verification.			

* Media & documentation updates available – see support section



Support Options for 710 Standard Configurations

Option price includes indicated level of support for standard configuration and all factory integrated options for the first year following delivery.

		OS0	OS1	OS2	OS3	OS4
		Next Day	4 hour	Next Day phone sup.	4 hour phone sup.	Installation
710	A2208A	624	833	1140	1349	428
	A2209A	627	838	1143	1354	428
	A2210A	606	770	1122	1286	428
	A2211A	606	770	1122	1286	428
	A2212A	612	809	1128	1325	428
	A2213A	666	890	1182	1406	428
	A2214A	654	866	1170	1382	428
	A2215A	750	1058	1266	1574	428
	A2222A	756	1068	1272	1584	428

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	Opt. 0DK HP-UX 9.0 Pre-load
A2208A 19" grayscale, 16MB, diskless \$9,860.	\$800.	\$1,600.	\$4,800.	\$2,000.	\$2,200.	\$525.	\$2,625.	\$1,050.	N/C	\$79.	\$79.
A2210A 16" color, 16MB, diskless \$11,950.	\$800.	\$1,600.	\$4,800.	\$2,000.	\$2,200.	\$525.	\$2,625.	\$1,050.	N/C	\$79.	\$79.
A2213A 19" color, 16MB, diskless \$13,000.	\$800.	\$1,600.	\$4,800.	\$2,000.	\$2,200.	\$525.	\$2,625.	\$1,050.	N/C	\$79.	\$79.

MODEL 710—ADD-ON OPTIONS (customer or field installed)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Memory				
A2216A	8MB RAM add-on. (Consisting of 4 x 2MB boards) See System Configuration Diagram for maximum memory constraints	Model 710	\$800.	\$12.
A2217A	16MB RAM add-on. (Consisting of 4 x 4MB boards) See System Configuration Diagram for maximum memory constraints	Model 710	\$1,600.	\$24.
A2218A	32MB RAM add-on. (Consisting of 4 x 8MB boards) See System Configuration Diagram for maximum memory constraints	Model 710	\$3,200.	\$48.
Internal Storage				
A2219A	210MB internal SCSI-II Disk Drive	Model 710 diskless systems	\$2,000.	\$42.
A2221A	420MB internal SCSI-II Disk Drive	Model 710 with no more than one disk	\$2,200.	\$75.
A2223A	Add 1.4MB 3.5" Floppy Disk Drive	Model 710 with no more than one disk	\$525.	\$15.
A2224A	Add 600MB 5.25" CD ROM Drive	Model 710 with no more than one disk	\$1,050.	\$54.
A2274A	Add 2GB DDS Tape Drive <i>must be ordered with option AHR</i>	Model 710 with no more than one disk and HP-UX 8.07	\$2,625.	\$81.
A2275A	Add 4mm DDS-DC Tape Drive (with data compression) <i>must be ordered with option AHR</i>	Model 710 with no more than one disk and HP-UX 8.07	\$3,675.	\$90.
#AHR	Upgrade kit for Model 705 and 710 (must order)		N/C	
Graphics				
B2156B	PowerShade 3D surfaces rendering software 1-user license-to-use	HP-UX 8.7 or greater	\$2,100.	\$200.
#AAU	CD-ROM Certificate		N/C	
#AAH	DDS (4mm DAT) tape		\$205.	



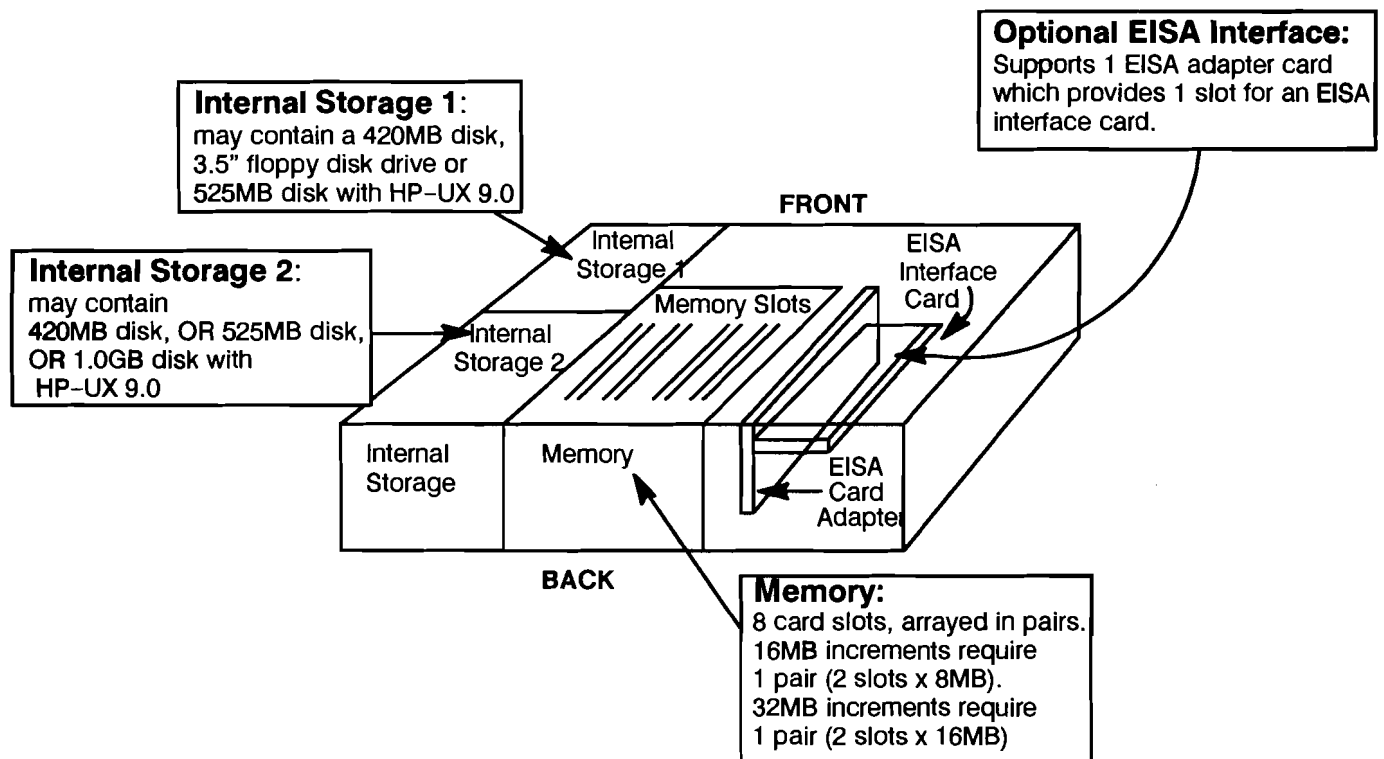
MODEL 720 PA-RISC DESKTOP WORKSTATIONS

System Standard Features

- 50MHz PA-RISC processor integral with 50MHz floating point processor
- Delivers 59.5 SPECmarks, 57.9 MIPS, and 17.9 MFLOPS with HP-UX 8.07
- Delivers 66.5 SPECmarks, 57.9 MIPS, and 17.9 MFLOPS with HP-UX 9.0
- 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 or 9.0 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



MODEL 720 PA-RISC WORKSTATION/SERVER – STANDARD CONFIGURATIONS

(support Factory Integrated Options)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
MODEL 720 GRX GRAYSCALE WORKSTATION				
A1929A	GRX, 19" grayscale monitor, 16MB RAM, one 420MB internal SCSI II disk Available options AN8, AND, 112, AMH, AMB, 015, AT7 ALD, ALE, ALF, ALG, AL9, 0DJ, 0DK, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit	\$15,650.	\$663.
MODEL 720 CRX COLOR 2D/3D WORKSTATION				
A1933A	CRX, 19" color monitor, 16MB RAM, one 420MB internal SCSI II disk Available options AN8, AND, 112, AMH, AMB, 015, AT7 ALD, ALE, ALF, ALG, AL9, 0DJ, 0DK, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit	\$22,450.	\$705.
MODEL 720 CRX-24 COLOR 2D/3D WORKSTATION				
A2263A	24 plane CRX graphics, 19" color monitor, 16MB RAM, one 420MB internal SCSI II disk Available options AN8, AND, 112, AMH, AMB, 015, AT7 ALD, ALE, ALF, ALG, AL9, 0DJ, 0DK, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit	\$25,390.	\$843.
MODEL 720 CRX-24Z COLOR 2D/3D WORKSTATION				
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, 015, AT7 ALD, ALE, ALF, ALG, AL9, 0DJ, 0DK, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit	\$30,390.	\$918.

MODEL 720 – FACTORY INTEGRATED OPTIONS

Memory

#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 AND or 112.</i>	\$2,000.
#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 AN8 or 112.</i>	\$6,000.
#112	Add 112MB memory for a total of 128MB, factory integrated. <i>Maximum of one factory integrated memory option per workstation.</i> <i>May NOT be ordered concurrently with options AN8 or AND.</i>	\$14,000.



MODEL 720 – FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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 or 015</i>	Model 720 system w/single 420MB internal disk.	\$2,200.	
#AMB	Add 1.4MB 3.5" SCSI II floppy disk drive , factory integrated. <i>May NOT be ordered concurrently with option 015</i>	Model 720 with one disk	\$525.	
#015	Swap 420MB disk for 525MB SCSI II disk drive <i>Maximum of one option 015 per workstation. May NOT be ordered concurrently with option AMB or AMH</i>	Model 720 system	N/C	
#AT7	Add one Single-Ended 1GB internal SCSI II disk drive <i>Maximum of one option AT7 per workstation. May NOT be ordered concurrently with option 010, AMB, or AT8</i>	Model 720 system w/single disk. HP-UX 9.0	\$3,850.	
EISA				
#ALD	Add one EISA Interface slot , factory integrated. <i>Maximum of one option ALD per workstation.</i>		\$1,575.	
#ALE	Add EISA SCSI II Host Adapter <i>May NOT be ordered with #ALF or #ALG.</i>	Model 720 w/EISA upgrade	\$1,255.	
#ALF	Add EISA HP-IB Host Adapter <i>May NOT be ordered with #ALE or #ALG.</i>	Model 720 w/EISA upgrade	\$1,255.	
#ALG	Add EISA LAN/9000 <i>May NOT be ordered with #ALE or #ALF.</i>	Model 720 w/EISA upgrade	\$1,465.	
Other				
#AL9	Factory select LAN AUI configuration. <i>This option overrides default ThinNET Ethernet connection.</i>	External Transceiver	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>		\$79.	
#0DK	HP-UX 9.0 Run-Time Instant Ignition, 2-user <i>Pre-loaded and pre-configured HP-UX 9.0 Run-Time Environment.</i>	Available Dec. 1, 1992	\$79.	

Support *(Maximum of one warranty upgrade and installation)*

- #0S0 Hardware: Upgrades warranty to 1-year next-day**
on-site repair, support-line access, license-to-use updates.*
- #0S1 Hardware: Upgrades warranty to 1-year 4-hour**
on-site repair, support-line access, license-to-use updates.*
- #0S2 Hardware: Upgrades warranty to 1-year next-day**
on-site repair, Software Phone Assistance (HP-UX),
support-line access, license-to-use updates.*
- #0S3 Hardware: Upgrades warranty to 1-year 4-hour**
on-site repair. Software Phone Assistance (HP-UX),
support-line access, license-to-use updates.*
- #0S4 Installation**
System installation, configuration and verification,

* Media & documentation updates available – see support section

Support Options for 720 Standard Configurations

Option price includes indicated level of support for standard configuration and all factory integrated options for the first year following delivery.

720		0S0	0S1	0S2	0S3	0S4
		Next Day	4 hour	Next Day phone sup.	4 hour phone sup.	Installation
	A1929A	663	905	1179	1421	428
	A1933A	705	962	1221	1478	428
	A2263A	843	1246	1359	1762	428
	A2264A	918	1394	1434	1910	428

MODEL 720 – FACTORY INTEGRATED CONFIGURATION MATRIX

Option Standard Configuration	Memory			Internal Storage			EISA Interface Options				Other Options	
	AN8 Add 16MB	AND Add 48MB	112 Add 112MB	015 525MB Disk	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/0DK HP-UX Pre-load
A1929A GRX 19" grayscale, 16MB, 420MB \$15,650.	\$2,000.	\$6,000.	\$14,000.	options may not be ordered together N/C \$2,200. \$525.			\$1,575.	\$1,255.	\$1,255.	\$1,465.	N/C	\$79.
A1933A CRX 19" color, 16MB, 420MB \$22,450.	\$2,000.	\$6,000.	\$14,000.	options may not be ordered together N/C \$2,200. \$525.			\$1,575.	\$1,255.	\$1,255.	\$1,465.	N/C	\$79.
A2263A CRX-24 19" color, 16MB, 420MB \$25,390.	\$2,000.	\$6,000.	\$14,000.	options may not be ordered together N/C \$2,200. \$525.			\$1,575.	\$1,255.	\$1,255.	\$1,465.	N/C	\$79.
A2264A CRX-24Z 19" color, 16MB, 420MB \$30,390.	\$2,000.	\$6,000.	\$14,000.	options may not be ordered together N/C \$2,200. \$525.			\$1,575.	\$1,255.	\$1,255.	\$1,465.	N/C	\$79.



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

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
<u>Memory</u>				
A1979A	16MB RAM add-on See System Configuration Diagram for maximum memory constraints	Model 720	\$2,000.	\$24.
<u>Internal Storage</u>				
A1983A	Second 420MB SCSI II Disk Drive	Model 720 w/single internal disk only	\$2,200.	\$75.
A1984A	Add 1.4MB 3.5" Floppy Disk Drive	Model 720 w/single internal disk only	\$525.	\$24.
A2565A	Add 525MB Single-Ended SCSI II Disk Drive	Model 720 with one Single-Ended Disk HP-UX 9.0	\$2,200.	
A2563A	Add 1.0GB Single-Ended SCSI II Disk Drive	Model 720 with one Single-Ended Disk HP-UX 9.0	\$3,850.	
<u>Graphics</u>				
B2156B	PowerShade 3D surfaces rendering software 1-user license-to-use	HP-UX 8.7 or greater	\$2,100.	\$200.
#AAU	CD-ROM Certificate		N/C	
#AAH	DDS (4mm DAT) tape		\$205.	
<u>EISA Interface</u>				
A1986A	EISA Upgrade Kit (Optional on Model 720) Adds one EISA interface slot	Model 720 w/out EISA	\$1,575.	
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	\$1,255.	
25560A	EISA HP-IB Host Adapter Connects HP-IB peripherals through EISA slot.	Model 720 w/EISA upgrade	\$1,255	
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	\$1,465.	
#740	Add ThickMAU, tap, and 6 M AUI cable		\$415.	
#840	Add EtherTwist MAU and 1 M cable		\$205.	
J2156A	FDDI/9000 for Series 700 provides FDDI single attach station.	M720 w/EISA upgrade HP-UX 8.7 or greater	\$4,720.	\$33.
#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	\$4,410.	\$27.
#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 720 w/EISA upgrade, HP-UX 8.07	\$1,675.	
#UJ9	Provides software on DDS (4mm DAT) tape		N/C	
#0B0	Delete manual set		-\$36.	



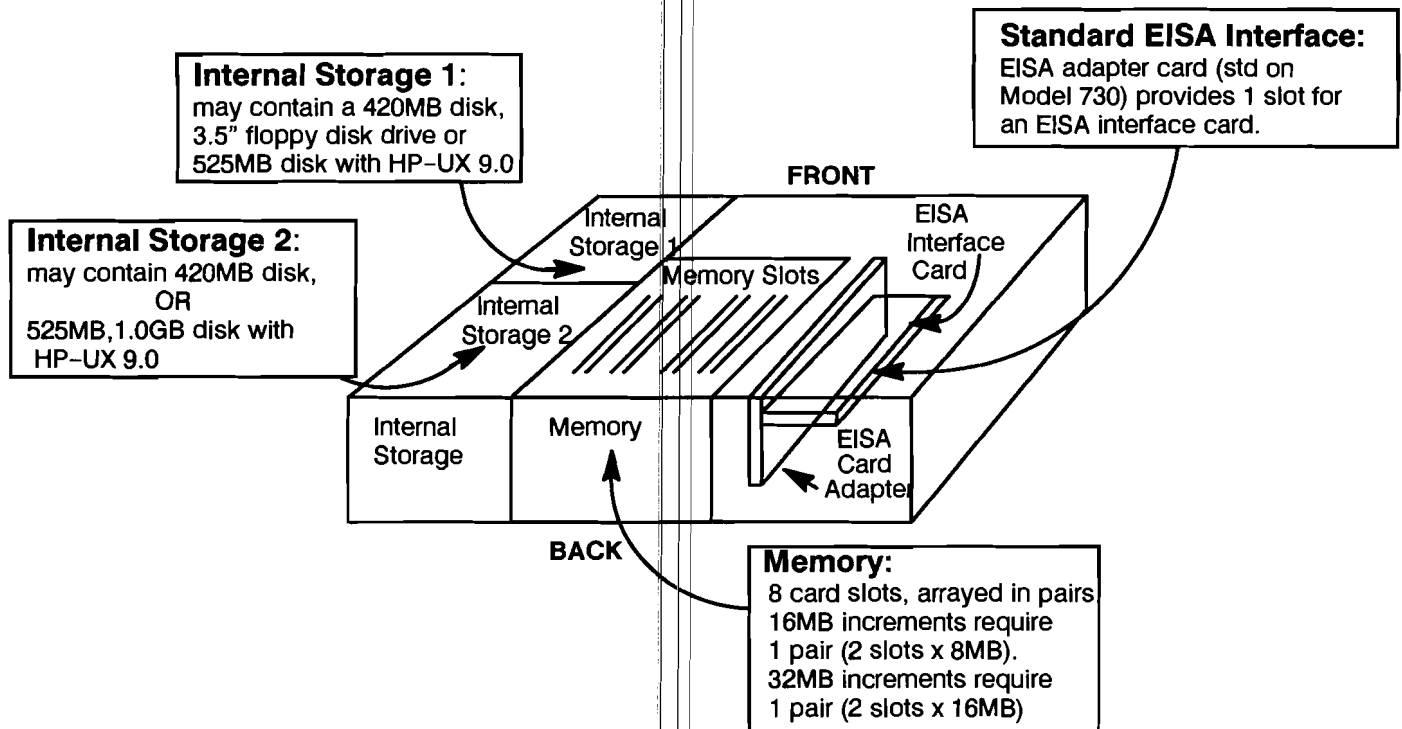
MODEL 730 PERFORMANCE DESKTOP WORKSTATIONS

System Standard Features

- 66MHz PA-RISC processor integral with 66MHz floating point processor
- Delivers 76.8 SPECmarks, 76.7 MIPS, and 23.7 MFLOPS with 8.07
- Delivers 86.6 SPECmarks, 76.7 MIPS, and 23.7 MFLOPS with 9.0
- 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 or 9.0 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 desktide use

MODEL 730 SYSTEM

Options Diagram



MODEL 730 WORKSTATIONS—STANDARD CONFIGURATIONS*(support Factory Integrated Options)*

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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MODEL 730 GRX GRAYSCALE WORKSTATIONS

A1946B	GRX, 19" grayscale monitor, 32MB RAM, one 420MB internal SCSI II disk Available options ANN, ANY, AMH, AMB, AT7, ALE, ALF, ALG, AL9, 0DJ, 0DK, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit	\$24,450.	\$777.
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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 options ANN, ANY, AMH, AMB, AT7, ALE, ALF, ALG, AL9, 0DJ, 0DK, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit	\$31,300.	\$819.
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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 options ANN, ANY, AMH, AMB, AT7, ALE, ALF, ALG, AL9, 0DJ, 0DK, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit	\$33,790.	\$909.
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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 options ANN, ANY, AMH, AMB, AT7, ALE, ALF, ALG, AL9, 0DJ, 0DK, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit	\$38,790.	\$984.
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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 options ANN, ANY, AMH, AMB, AT7, ALE, ALF, ALG, AL9, 0DJ, 0DK, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit	\$106,900.	\$1,506.
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MODEL 730—FACTORY INTEGRATED OPTIONS**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>	\$4,000.
#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 option ANN.</i>	\$12,000.



MODEL 730 – FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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	\$2,200.	
#AMB	Add 1.4MB 3.5" SCSI II floppy disk drive , factory integrated	Model 730 with one disk	\$525.	
#015	Swap 420MB disk for 525MB SCSI II disk drive <i>Maximum of one option 015 per workstation. May NOT be ordered concurrently with option AMB or AMH</i>	Model 730 system	N/C	
#AT7	Add one Single-Ended 1GB Internal SCSI II disk drive <i>Maximum of one option AT7 per workstation. May NOT be ordered concurrently with option 010, AMB, or AT8</i>	Model 730 system w/single disk. HP-UX 9.0	\$3,850.	
EISA				
#ALE	Add EISA SCSI II Host Adapter <i>May NOT be ordered with #ALF or #ALG.</i>	Model 730	\$1,255.	
#ALF	Add EISA HP-IB Host Adapter <i>May NOT be ordered with #ALE or #ALG.</i>	Model 730	\$1,255.	
#ALG	Add EISA LAN/9000 <i>May NOT be ordered with #ALE or #ALF</i>	Model 730	\$1,465.	
Other				
#AL9	Factory select LAN AUI configuration. <i>This option overrides default ThinNET Ethernet connection.</i>	External Transceiver	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>		\$79.	
#0DK	HP-UX 9.0 Run-Time Instant Ignition, 2-user <i>Pre-loaded and pre-configured HP-UX 9.0 Run-Time Environment.</i>	Available Dec. 1, 1992	\$79.	
Support <i>(Maximum of one warranty upgrade and installation)</i>				
#0S0	Hardware: Upgrades warranty to 1-year next-day on-site repair, support-line access, license-to-use updates.*			
#0S1	Hardware: Upgrades warranty to 1-year 4-hour on-site repair, support-line access, license-to-use updates.*			
#0S2	Hardware: Upgrades warranty to 1-year next-day on-site repair, Software Phone Assistance (HP-UX), support-line access, license-to-use updates.*			
#0S3	Hardware: Upgrades warranty to 1-year 4-hour on-site repair, Software Phone Assistance (HP-UX), support-line access, license-to-use updates.*			
#0S4	Installation System installation, configuration and verification,			
* Media & documentation updates available – see support section				



Support Options for 730 Standard Configurations

Option price includes indicated level of support for standard configuration and all factory integrated options for the first year following delivery.

730		0S0	0S1	0S2	0S3	0S4
		Next Day	4 hour	Next Day phone sup.	4 hour phone sup.	Installation
	A1946B	777	1087	1425	1735	428
	A1950B	819	1145	1467	1793	428
	A2265B	909	1327	1557	1975	428
	A2266B	984	1476	1632	2124	428
	A2276B	1506	2522	2154	3170	428

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	015 525MB Disk	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/0DK HP-UX Pre-load
A1946B GRX 19" grayscale, 32MB, 420MB \$24,450.	\$4,000.	\$12,000.	N/C	\$2,200.	\$525.	\$1,255.	\$1,255.	\$1,465.	N/C	\$79.
A1950B CRX 19" color, 32MB, 420MB \$31,300.	\$4,000.	\$12,000.	N/C	\$2,200.	\$525.	\$1,255.	\$1,255.	\$1,465.	N/C	\$79.
A2265B CRX-24 19" color, 32MB, 420MB \$33,790.	\$4,000.	\$12,000.	N/C	\$2,200.	\$525.	\$1,255.	\$1,255.	\$1,465.	N/C	\$79.
A2266B CRX-24Z 19" color, 32MB, 420MB \$38,790.	\$4,000.	\$12,000.	N/C	\$2,200.	\$525.	\$1,255.	\$1,255.	\$1,465.	N/C	\$79.
A2276B TVRX T4 19" color, 32MB, 420MB \$106,900.	\$4,000.	\$12,000.	N/C	\$2,200.	\$525.	\$1,255.	\$1,255.	\$1,465.	N/C	\$79.

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

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Memory				
A1979A	16MB RAM add-on See System Configuration Diagram for maximum memory constraints	Model 730	\$2,000.	\$24.
Internal Storage				
A1983A	Second 420MB SCSI II Disk Drive	Model 730 w/single internal disk only	\$2,200.	\$75.
A1984A	Add 1.4MB 3.5" Floppy Disk Drive	Model 730 w/single internal disk only	\$525.	\$24.
A2565A	Add 525MB Single-Ended SCSI II Disk Drive	Model 730 with one Single-Ended Disk HP-UX 9.0	\$2,200.	
A2563A	Add 1.0GB Single-Ended SCSI II Disk Drive	Model 730 with one Single-Ended Disk HP-UX 9.0	\$3,850.	
Graphics				
B2156B	PowerShade 3D surfaces rendering software 1-user license-to-use	HP-UX 8.7 or greater	\$2,100.	\$200.
#AAU	CD-ROM Certificate		N/C	
#AAH	DDS (4mm DAT) tape		\$205.	
EISA Interface				
25525A	EISA SCSI II Host Adapter Connects SCSI II fast/differential devices through EISA slot. Includes a differential, low density terminator.	Model 730	\$1,255.	
25560A	EISA HP-IB Host Adapter Connects HP-IB peripherals through EISA slot.	Model 730	\$1,255.	
25567A	EISA LAN/9000 for Series 700 provides second Ethernet LAN. Includes LAN hardware built in ThinMAU and BNC connector.	Model 730	\$1,465.	
#740	Add ThickMAU, tap, and 6 M AUI cable		\$415.	
#840	Add EtherTwist MAU and 1 M cable		\$205.	
J2156A	FDDI/9000 for Series 700 provides FDDI single attach station	Model 730 HP-UX 8.07	\$4,720.	\$33.
#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 8.0	\$4,410.	\$27.
#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	\$1,675.	
#UJ9	Provides software on DDS (4mm DAT) tape		N/C	
#0B0	Delete manual set		-\$36.	



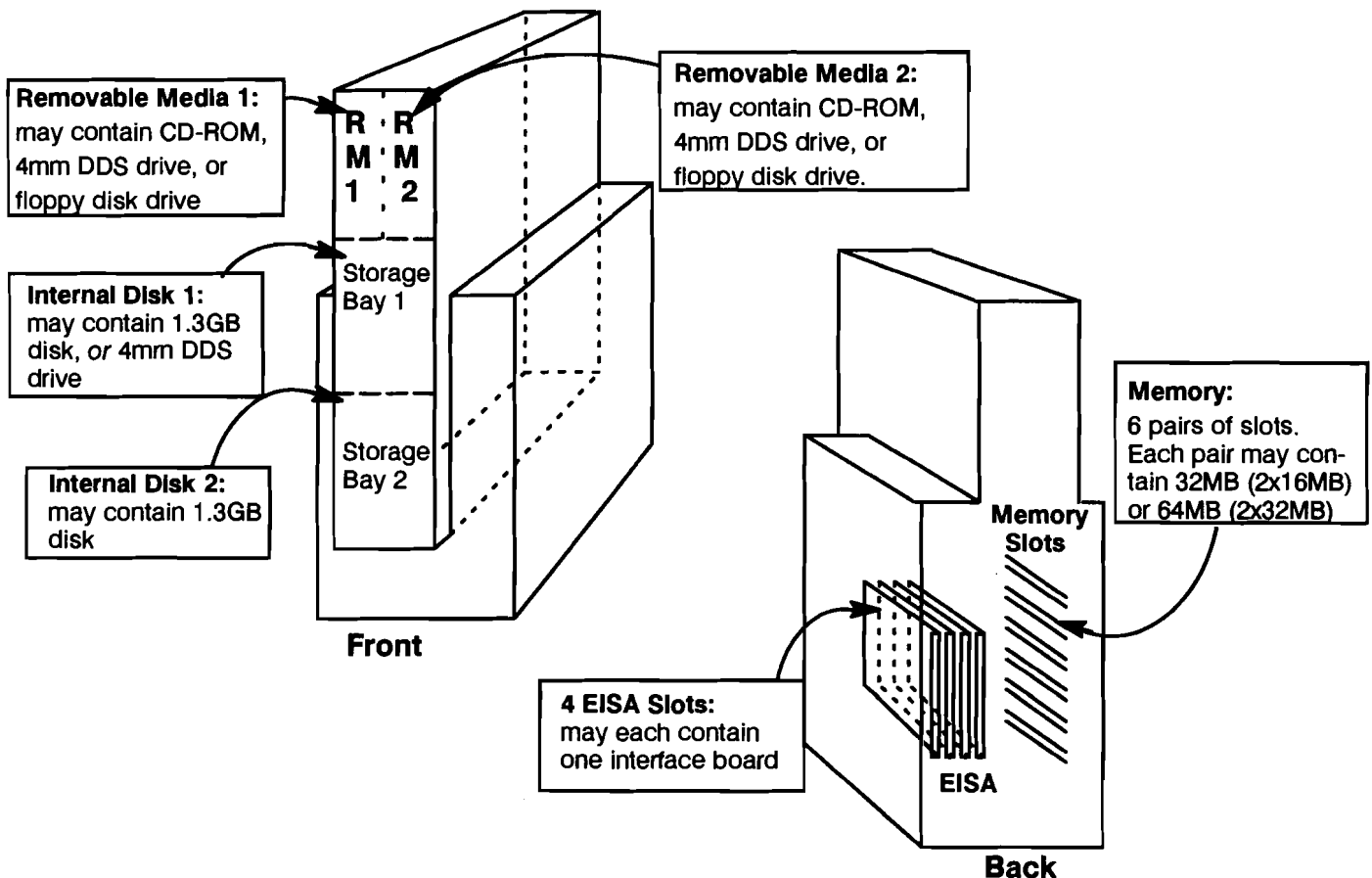
MODEL 750 DESKSIDE WORKSTATIONS

System Standard Features

- 66MHz PA-RISC processor integral with 66MHz floating point processor
- Delivers 77.5 SPECmarks, 76.7 MIPS, and 23.7 MFLOPS with HP-UX 8.07
- Delivers 86.6 SPECmarks, 76.0 MIPS, and 23.7 MFLOPS with HP-UX 9.0
- 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 or 9.0 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



MODEL 750 WORKSTATION/SERVERS—STANDARD CONFIGURATIONS

(support Factory Integrated Options)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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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, 0DK, 0S0, 0S1, 0S2, 0S3, 0S4	localization kit	\$52,890.	\$921.
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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, 0DK, 0S0, 0S1, 0S2, 0S3, 0S4	localization kit	\$56,890.	\$1,083.
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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, 0DK, 0S0, 0S1, 0S2, 0S3, 0S4	localization kit	\$61,890.	\$1,158.
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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, 0DK, 0S0, 0S1, 0S2, 0S3, 0S4	localization kit	\$124,890.	\$1,551.
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MODEL 750—FACTORY INTEGRATED OPTIONS

Memory

#ANQ	Add 64MB memory for a total of 128MB, factory integrated. Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options ANW, ANX.	\$8,000.
#ANW	Add 192MB memory for a total of 256MB, factory integrated. Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options ANQ, ANX.	\$24,000.
#ANX	Add 320MB memory for a total of 384MB, factory integrated. Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options ANQ, ANW.	\$40,000.

Internal Storage

#AMG	Add 1.3GB SCSI II disk drive, factory integrated. May NOT order more than one per workstation.	Model 750 w/single 1.3GB disk	\$5,000.
#AMX	Add 4mm 3.5" DDS tape drive with data compression, factory integrated. May NOT be ordered concurrently with option AMB	Model 750 with available half-height bay see system diagram	\$3,675.



MODEL 750 – FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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INTERNAL STORAGE

#AM8	Add 600MB SCSI II CD-ROM, factory integrated.	Model 750 with available half-height bay see system diagram	\$1,050.	
#AMB	Add 1.4MB 3.5" SCSI II floppy disk drive, factory integrated. May NOT be ordered concurrently with option AMX	Model 750 with available half-height bay see system diagram	\$525.	

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

#ALE	Add EISA SCSI II Host Adapter	Model 750	\$1,255.	
#ALF	Add EISA HP-IB Host Adapter	Model 750	\$1,255.	
#ALG	Add EISA LAN/9000	Model 750	\$1,465.	
#ALQ	Add EISA FDDI/9000	Model 750	\$4,720.	

Other

#AL9	Factory select LAN AUI configuration. This option overrides default ThinNET Ethernet connection.	External transceiver required.	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.		\$79.	
#0DK	HP-UX 9.0 Run-Time Instant Ignition, 2-user Pre-loaded and pre-configured HP-UX 9.0 Run-Time Environment.		\$79.	

Support (Maximum of one warranty upgrade and installation)

#0S0	Hardware: Upgrades warranty to 1-year next-day on-site repair, support-line access, license-to-use updates.*			
#0S1	Hardware: Upgrades warranty to 1-year 4-hour on-site repair, support-line access, license-to-use updates.*			
#0S2	Hardware: Upgrades warranty to 1-year next-day on-site repair, Software Phone Assistance (HP-UX), support-line access, license-to-use updates.*			
#0S3	Hardware: Upgrades warranty to 1-year 4-hour on-site repair. Software Phone Assistance (HP-UX), support-line access, license-to-use updates.*			
#0S4	Installation System installation, configuration and verification.			

* Media & documentation updates available – see support section

Support Options for 750 Standard Configurations

Option price includes indicated level of support for standard configuration and all factory integrated options for the first year following delivery.

750	0S0 Next Day	0S1 4 hour	0S2 Next Day phone sup.	0S3 4 hour phone sup.	0S4 Installation
A2267B	1083	1673	1731	2321	428
A2268B	1158	1822	1806	2470	428
A2278B	921	1346	1569	1994	428
A2281B	1551	2609	2199	3257	428

**MODEL 750 – 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.				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/ODK HP-UX Pre-load
A2278B CRX 19" color, 64MB, 1.3GB \$52,890.	\$8,000.	\$24,000	\$40,000.	\$5,000.	\$1,050.	\$3,675.	\$525.	\$1,255.	\$1,255.	\$1,465.	\$4,720.	N/C	\$79.
A2267B CRX-24 19" color, 64MB, 1.3GB \$56,890.	\$8,000.	\$24,000	\$40,000.	\$5,000.	\$1,050.	\$3,675.	\$525.	\$1,255.	\$1,255.	\$1,465.	\$4,720.	N/C	\$79.
A2268B CRX-24Z 19" color, 64MB, 1.3GB \$61,890.	\$8,000.	\$24,000	\$40,000.	\$5,000.	\$1,050.	\$3,675.	\$525.	\$1,255.	\$1,255.	\$1,465.	\$4,720.	N/C	\$79.
A2281B TVRX T4 19" 3D clr, 64MB, 1.3GB \$124,890.	\$8,000.	\$24,000	\$40,000.	\$5,000.	\$1,050.	\$3,675.	\$525.	\$1,255.	\$1,255.	\$1,465.	\$4,720.	N/C	\$79.



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

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Memory				
A2513A	64MB RAM add-on See System Configuration Diagram for maximum memory constraints	Model 750	\$8,000.	\$99.
Internal Storage (See System Configuration Diagram for maximum internal storage constraints)				
A1989A	Add 1.3GB Internal SCSI II Disk Drive	Model 750 w/single internal disk	\$5,000	\$81.
A1985A	Add 600MB CD-ROM Drive	Model 750 with available half height bay see system diagram	\$1,050.	\$66.
A2274A	Add 2GB 4mm DDS Tape Drive	Model 750 with available bay see system diagram HP-UX 8.07	\$2,625.	\$81.
#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	\$3,675.	\$90.
#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	\$525.	\$24.
Graphics				
B2156B	PowerShade 3D surfaces rendering software 1-user license-to-use	HP-UX 8.7 or greater	\$2,100.	\$200.
#AAU	CD-ROM Certificate		N/C	
#AAH	DDS (4mm DAT) tape		\$205.	
EISA Interface				
25525A	EISA SCSI II Host Adapter Connects SCSI II fast/differential devices through EISA slot. Includes a differential, low density terminator.	Model 750	\$1,255.	
25560A	EISA HP-IB Host Adapter Connects HP-IB peripherals through EISA slot.	Model 750	\$1,255.	
25567A	EISA LAN/9000 for Series 700 provides second Ethernet LAN. Includes LAN hardware built in ThinMAU and BNC connector.	Model 750	\$1,465.	
#740	Add ThickMAU, tap, and 6 M AUI cable		\$415.	
#840	Add EtherTwist MAU and 1 M cable		\$205.	
J2156A	FDDI/9000 for Series 700 provides FDDI single attach station	Model 750 HP-UX 8.07	\$4,720.	\$33.
#1AW	Delete Software Right-to-use and documentation		-\$995.	

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

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
<u>EISA Interface</u>				
J2159A	X.25/9000 for Series 700 provides network access via X.25.	Model 750 HP-UX 8.07	\$4,410.	\$27.
#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	\$1,675.	
#UJ9	Provides software on DDS (4mm DAT) tape		N/C	
#0B0	Delete manual set		-\$36.	



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

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
<u>Memory</u>				
A2513A	64MB RAM add-on See System Configuration Diagram for maximum memory constraints	Model 750	\$8,000.	\$99.
<u>Internal Storage</u> (See System Configuration Diagram for maximum internal storage constraints)				
A1989A	Add 1.3GB Internal SCSI II Disk Drive	Model 750 w/single internal disk	\$5,000	\$81.
A1985A	Add 600MB CD-ROM Drive	Model 750 with available half height bay see system diagram	\$1,050.	\$66.
A2274A	Add 2GB 4mm DDS Tape Drive	Model 750 with available bay see system diagram HP-UX 8.07	\$2,625.	\$81.
#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	\$3,675.	\$90.
#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	\$525.	\$24.
<u>Graphics</u>				
B2156B	PowerShade 3D surfaces rendering software 1-user license-to-use	HP-UX 8.7 or greater	\$2,100.	\$200.
#AAU	CD-ROM Certificate		N/C	
#AAH	DDS (4mm DAT) tape		\$205.	
<u>EISA Interface</u>				
25525B	EISA SCSI II Host Adapter Connects SCSI II fast/differential devices through EISA slot. Includes a differential, low density terminator. Note: For best results, please use the new version 25525B (not the model 25525A) on the model 750	Model 750	\$1,255.	
25560A	EISA HP-IB Host Adapter Connects HP-IB peripherals through EISA slot.	Model 750	\$1,255.	
25567A	EISA LAN/9000 for Series 700 provides second Ethernet LAN. Includes LAN hardware built in ThinMAU and BNC connector.	Model 750	\$1,465.	
#740	Add ThickMAU, tap, and 6 M AUI cable		\$415.	
#840	Add EtherTwist MAU and 1 M cable		\$205.	
J2156A	FDDI/9000 for Series 700 provides FDDI single attach station	Model 750 HP-UX 8.07	\$4,720.	\$33.
#1AW	Delete Software Right-to-use and documentation		-\$995.	

SERIES 700 SERVERS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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, 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.		\$40,950.	
1FH	AT-style American language keyboard		N/C	
1FJ	HP-Style American language keyboard		N/C	



SERIES 700 SERVER—FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	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	\$8,000.	
#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	\$24,000.	
#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	\$40,000.	

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	\$8,000.	
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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	\$4,000.	
#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	\$12,000.	

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 is allowed on the Server 750.)

#ALE	Add EISA SCSI II Host Adapter	Server 700	\$1,255.	
#ALF	Add EISA HP-IB Host Adapter	Server 700	\$1,255.	
#ALG	Add EISA 802.3 LAN/9000	Server 700	\$1,465.	
#ALQ	Add EISA FDDI LAN/9000	Server 750	\$4,720.	

Series 700 Server Model 720/730/750 Internal Storage

AMH	Second 420MB SCSI II Disk Drive factory integrated <i>May NOT be ordered with AMB</i>	Server 720 Only	\$2,200.	
AMB	Add 1.4MB 3.5" SCSI II Floppy Disk Drive <i>May NOT be ordered with AMH</i>	Server 720 Only	\$525.	
AMG	Second 1.3GB SCSI II Disk Drive factory integrated <i>Order max. of 1 for a total of 2 in system</i>	Server 750 Only	\$5,000.	

Other

#AL9	Factory select LAN AUI configuration. <i>This option overrides default ThinNET Ethernet connection.</i>	External transceiver required.	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>		\$79.	
#0DK	HP-UX 9.0 Run-Time Instant Ignition, 2-user <i>Pre-loaded and pre-configured HP-UX 8.07 Run-Time Environment.</i>	Available Dec. 1, 1992	\$79.	

Support *(Maximum of one warranty upgrade and installation)*

#0S0	Hardware: Upgrades warranty to 1-year next-day <i>on-site repair, support-line access, license-to-use updates.*</i>			
#0S1	Hardware: Upgrades warranty to 1-year 4-hour <i>on-site repair, support-line access, license-to-use updates.*</i>			
#0S2	Hardware: Upgrades warranty to 1-year next-day <i>on-site repair, Software Phone Assistance (HP-UX), support-line access, license-to-use updates.*</i>			
#0S3	Hardware: Upgrades warranty to 1-year 4-hour <i>on-site repair. Software Phone Assistance (HP-UX),</i>			

Support Options for 700 Servers Standard Configurations

Option price includes indicated level of support for standard configuration and all factory integrated options for the first year following delivery.

	OS0 Next Day	OS1 4 hour	OS2 Next Day phone sup.	OS3 4 hour phone sup.	OS4 Installation
700 Servers					
A2283A	1014	1529	1662	2177	428
A2284A	978	1462	1626	2110	428
A2286A	840	1236	1356	1752	428

SERIES 700 SERVER – ADD-ON OPTIONS (customer or field installed)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE			
<u>Series 700 Server Model 750 Memory</u>							
A2513A	64MB RAM add-on	Server 750	\$8,000.	\$99.			
<u>Series 700 Server Model 720/730 Memory</u>							
A1979A	16MB RAM add-on	Server 720/730	\$2,000.	\$24.			
<u>Internal Storage</u>							
A1984A	Add 1.4MB 3.5" Floppy Disk Drive	Server 720 only	\$525.	\$24.			
<u>Terminals (Required For Server Operation)</u>							
C1064A	HP 700/96 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>	Requires cable 24542G , (order from HP Apollo Direct Channel) localization option	\$895.				
C1064G	HP 700/96 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>	Requires cable 24542G (order from HP Apollo Direct Channel) localization option	\$895.				
C1064W	HP 700/96 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>	Requires cable 24542G (order from HP Apollo Direct Channel) localization option	\$895.				
<u>Terminal Localization Kit (Must Order With Every Terminal)</u>							
Localized options #ABA through #AB1 (below)							
#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	#ABO	Taiwan	#ABH	Dutch
#ABS	Swedish	#AB1	Korean	#ABJ	Katakana	#ABU	UK



MULTI-MONITOR PA-RISC WORKSTATIONS – STANDARD CONFIGURATIONS

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.

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	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, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit	\$31,900.	\$870.
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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, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit	\$40,750.	\$936.
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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, 0S0, 0S1, 0S2, 0S3, 0S4	Localization Kit	\$65,000.	\$1,035.
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Server Power Cord and Documentation options #900 through #919 (below) **N/C**
(Must Order With Every Series 700 Multi-Monitor Workstation)

#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 PA-RISC WORKSTATIONS – FACTORY INTEGRATED OPTIONS

Memory

#AN8	Add 16MB memory for a total of 32MB, factory integrated. Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options AND or 112 .	Model 720	\$2,000.
#AND	Add 48MB memory for a total of 64MB, factory integrated. Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options AN8 or 112 .	Model 720	\$6,000.
#112	Add 112MB memory for a total of 128MB, factory integrated. Maximum of one factory integrated memory option per workstation. May NOT be ordered concurrently with options AN8 or AND .	Model 720	\$14,000.

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Memory				
#ANN	Add 32MB memory for a total of 64MB, factory integrated. Model 730 <i>Maximum of one factory integrated memory option per workstation. May NOT be ordered together with option ANY.</i>		\$4,000.	
#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 option ANN.</i>	Model 730	\$12,000.	
#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, ANX.</i>	Model 750	\$8,000.	
#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>	Model 750	\$24,000.	
#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>	Model 750	\$40,000.	
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	\$5,000.	
#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 or 730 system w/single 420MB internal disk	\$2,200.	
#AMX	Add 4mm 3.5" DDS tape drive with data compression, factory integrated. <i>May NOT be ordered concurrently with option AMB</i>	Model 7xx with available half-height bay see system diagram	\$3,675.	
Internal Storage				
#AM8	Add 600MB SCSI II CD-ROM, factory integrated.	Model 750 with available half-height bay see system diagram	\$1,050.	
#AMB	Add 1.4MB 3.5" SCSI II floppy disk drive, factory integrated. <i>May NOT be ordered concurrently with option AMX</i>	Model 750 with available half-height bay see system diagram	\$525.	
EISA (EISA option cards may be ordered up to the system maximum of four.)				
#ALD	Add one EISA Interface slot, factory integrated. <i>Maximum of one option ALD per workstation.</i>		\$1,575.	
#ALE	Add EISA SCSI II Host Adapter	Model 750	\$1,255.	
#ALF	Add EISA HP-IB Host Adapter	Model 750	\$1,255.	
#ALG	Add EISA LAN/9000	Model 750	\$1,465.	
#ALQ	Add EISA FDDI/9000	Model 750	\$4,720.	
Other				
#AL9	Factory select LAN AUI configuration. <i>This option overrides default ThinNET Ethernet connection.</i>	External transceiver required.	N/C	
Support (Maximum of one warranty upgrade and installation)				
#OS0	Hardware: Upgrades warranty to 1-year next-day on-site repair, support-line access, license-to-use updates.*			
#OS1	Hardware: Upgrades warranty to 1-year 4-hour on-site repair, support-line access, license-to-use updates.*			
#OS2	Hardware: Upgrades warranty to 1-year next-day on-site repair, Software Phone Assistance (HP-UX), support-line access, license-to-use updates.*			
#OS3	Hardware: Upgrades warranty to 1-year 4-hour on-site repair. Software Phone Assistance (HP-UX), support-line access, license-to-use updates.*			



Support Options for Multi-Monitor Workstation Standard Configurations

Option price includes indicated level of support for standard configuration and all factory integrated options for the first year following delivery.

Multi-Monitor Workstations	OS0 Next Day	OS1 4 hour	OS2 Next Day phone sup.	OS3 4 hour phone sup.	OS4 Installation
A2279A	870	1298	1386	1814	428
A2277B	936	1380	1584	2026	428
A2282B	1035	1610	1683	2258	428

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

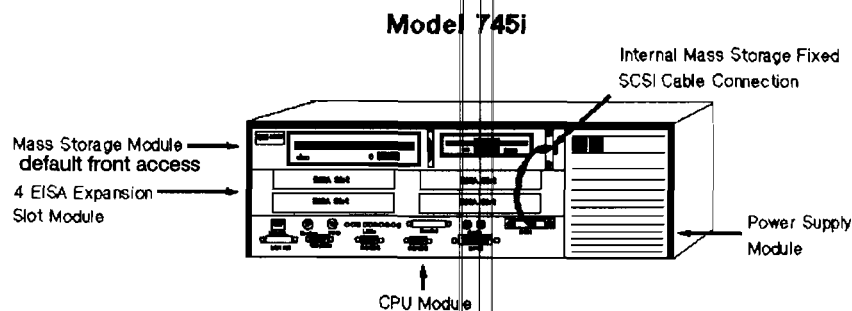
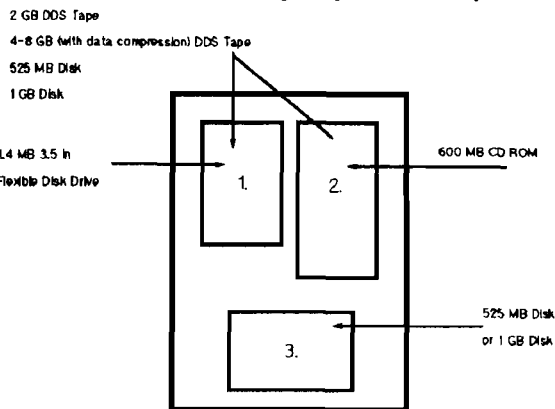
PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
A2269A	Upgrades a Model 750 Dual CRX workstation configuration to a Quad CRX (four monitor) configuration. Includes <i>Dual CRX</i> graphics card and two 19" color monitors. <i>NOTE: Must specify power cord option 900, 901, 902, 903, 906, 912, 917, 918, 919</i>	Model 750 Dual CRX or Series 700 server.	\$17,850.	\$195.
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.	Model 750 CRX-24 or Series 700 server.	\$15,750.	\$165.
Power Cord and Documentation #900 through #919 (Must Order Power Cord With Every A2269A and A2270A)		(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)

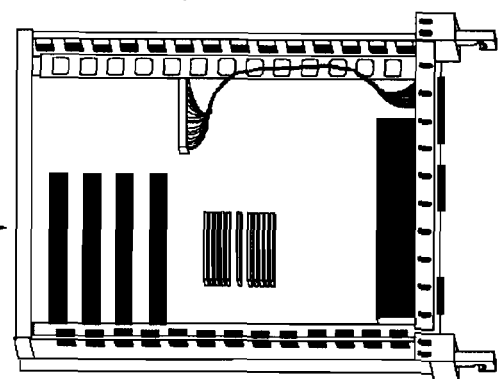
Add-on products for multi-monitor configurations are the same as those for other workstations of the same model. To find the add-on product numbers and their pricing appropriate to one of the standard configurations above, please refer to the listings in the corresponding workstation section of this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

MODEL 745i INDUSTRIAL WORKSTATION**System Standard Features**

- 50 Mhz PA-RISC processor
- Delivers 69 SPECmarks, 63 MIPS, 13MFLOPS
- Configurable with 16 to 128 MB main memory
- Configurable with one internal 3.5" fixed disk and two additional 3.5" internal fixed or removable media devices or one 3.5" and one 5.25"
- HP-IB Instrument Interface
- HP-HIL Interface
- Centronics Parallel Interface
- 2 asynchronous RS-232 Interfaces
- SCSI-II Interface
- Local Area Network - IEEE 802.3 Ethernet - AUI Connector "Note requires MAU"
- Voice Quality Audio I/O
- 4 EISA Interface Slots
- HP-UX 9.0 Run-Time, 2 user license-to-use
- Documentation:
Installation Guide
Configuration Guide
- Warranty 1 year 3-day response on-site repair

MODEL 745i SYSTEM**Options Diagram****Mass Storage Bays Selection Options****4 Memory Module Slots (2 pairs)**

- 16 MB Standard (2 slots x 8 MB)
- 32 MB Config. (4 slots x 8 MB)
- 64 MB Config. (2 slots x 32 MB)
- 128 MB Config. (4 slots x 32 MB)

CPU Module Top View

**HEWLETT
PACKARD**

Workstation Systems Group

MODEL 745i INDUSTRIAL WORKSTATION – STANDARD CONFIGURATIONS

(support Factory Integrated Options)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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MODEL 745i COLOR WORKSTATION

A2637A	Model 745i Instrument Controller 17" 1024 X 768 Color Monitor, 16 MB ECC SIMM RAM 525MB Disk pre-loaded with HP-UX HP-UX License-to-use <i>Requires SICL (Standard Interface Control Library)</i> <i>Note: Does not include software media</i> Available Options: ADV, AN8, BCK, 013, AMB, AMW, AMX, SCD, SDS, OS0, OS1, OS2, OS3	Localization kit	\$16,695	\$810.
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A2638A	Model 745i Industrial Workstation 14" 1024 X 768 Color Monitor, HP-UX LTU, 16 MB ECC RAM <i>Note: Does not include software media,</i> <i>(Maximum of three factory integrated storage options per workstation)</i> <i>Requires SICL (Standard Interface Control Library,</i> <i>to enable HP-IB Instrument Interface (PN E2091B)</i> Available Options: ADR, ADY, ADV, AN8, ANE, ANS, BCK, AT9, AT7, AMB, AMY, AMZ, AMW, AMX, OS0, OS1, OS2, OS3	Localization kit	\$13,390.	\$801.
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STANDARD INSTRUMENT CONTROL LIBRARY (SICL)

E2091B	SICL for S700 Development Environment; Includes Media and Manuals
#AAF	Provides SICL software on CD ROM media
#AAH	Provides SICL software on DDS (4mm DAT) tape

MODEL 745i-FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Display				
#ADR	Replace 14" 1024 X 768 color monitor with 17" 1024 X 768 color monitor		\$1,000.	
#ADV	Replace 17" 1024 X 768 color monitor with 19" 1280 X 1024 color monitor	Instrument controller A2637A only	\$1,100.	
#ADV	Replace 14" 1024 X 768 color monitor with 19" 1280 X 1024 color monitor		\$2,100.	
#ADY	Delete 14" 1024 X 768 Monitor (May not order concurrently with options ADR or ADV)		-\$400.	
Memory (Maximum of one factory integrated memory option per workstation)				
#AN8	Add 16 MB memory, for total 32 MB Note: Adds pair 8 MB modules, No available RAM slots		\$1,600.	
#ANE	Configure with 64 MB System RAM Note: Uses pair 32 MB modules, One available pair of RAM slots		\$9,600.	
#ANS	Configure with 128 MB System RAM Note: Uses two pair 32 MB modules, No available RAM slots		\$20,800.65	
Internal Storage (Maximum of three factory integrated internal storage options per workstation)				
#BCK	Access to removeable media from back of system (default orientation of 745i is front)		N/C	
#013	Replace 525MB SCSI-II Disk Drive with a 1GB single ended SCSI-II Disk Drive Note: May NOT order more than one per workstation	745i Instrument Controller A2637A only	\$1,650.	
#AT9	Add 525MB Single-Ended SCSI-II Disk (May order two per workstation)		\$2,200.	
#AT7	Add 1GB Single-Ended SCSI-II Disk (May order three per workstation)		\$3,850.	
#AMB	Add 1.4MB 3.5" SCSI-II floppy disk drive Note: May NOT order more than one per workstation May NOT order concurrently with option AMY, or A3w		\$525.	
#AM8	Add 600MB 5.25" CD ROM SCSI-II drive Note: May NOT order more than one per workstation May NOT order concurrently with option AMW, AMX		\$1,050.	
#AMW	Add 2 GB 3.5" DDS SCSI-II tape drive for 5.25" storage bay Note: May NOT order more than one per workstation, May NOT order concurrently with option AMX, AM8, AMZ, or AMY		\$2,625.	
#AMX	Add 4-8GB (with data compression) DDS Tape Drive for 5.25" storage bay Note: May NOT order more than one per workstation, May NOT order concurrently with option AMW, AM8, AMZ, or AMY		\$3,675.	
#AMY	Add 2GB DDS Tape Drive for 3.5" storage bay Note: May NOT order more than one per workstation, May NOT order concurrently with option AMW, AMX, AMY or AMB		\$2,625.	
#AMZ	Add 4-8GB (with data compression) DDS Tape Drive for 3.5" storage bay Note: May NOT order more than one per workstation, May NOT order concurrently with option AMW, AMX, AMZ or AMB		\$3,675.	
STANDARD INSTRUMENT CONTROL LIBRARY (SICL)				
SICL for S700 Development Environment; includes Media and Manuals		Instrument Controller A2637A only		
#SCD	Provides SICL software on CD ROM media		\$500.	
#SDS	Provides SICL software on DDS (4mm DAT) tape		\$500.	



MODEL 745i-FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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Support *(Maximum of one warranty upgrade and installation)*

#0S0 Hardware: Upgrades warranty to 1-year next-day
on-site repair, support-line access, license-to-use updates.*

#0S1 Hardware: Upgrades warranty to 1-year 4-hour
on-site repair, support-line access, license-to-use updates.*

#0S2 Hardware: Upgrades warranty to 1-year next-day
on-site repair, Software Phone Assistance (HP-UX), on-site repair,
support-line access, license-to-use updates.*

#0S3 Hardware: Upgrades warranty to 1-year 4-hour
on-site repair, Software Phone Assistance (HP-UX),
support-line access, license-to-use updates.*

#0S4 Installation
System installation, configuration and verification,

* Media & documentation updates available – see support section

Support Options for 745i Standard Configurations

Option price includes indicated level of support for standard configuration and all factory integrated options for the first year following delivery.

		0S0 Next Day	0S1 4 hour	0S2 Next Day phone sup.	0S3 4 hour phone sup.	0S4 Installation
745i,	A2637A	810	1126	1458	1774	428
	A2638A	801	1116	1449	1764	428



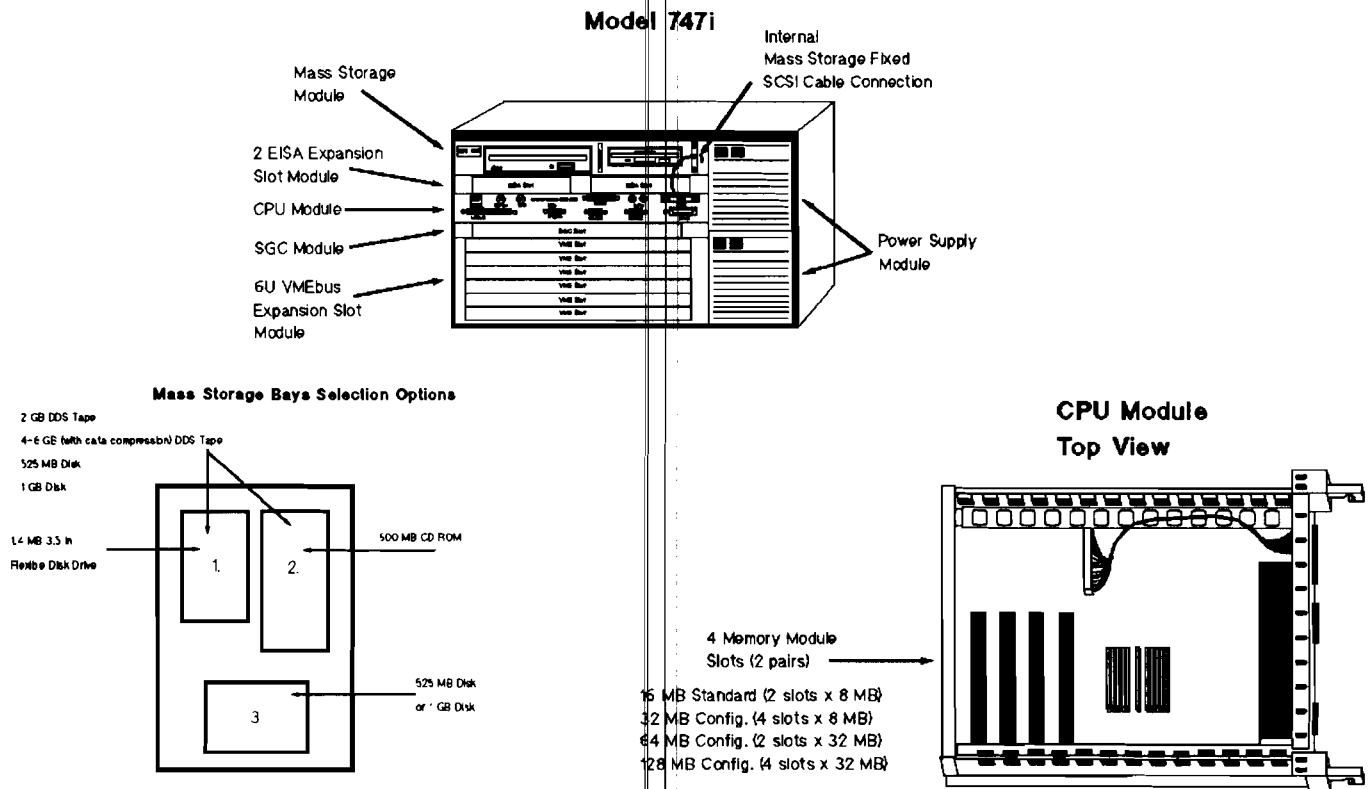
MODEL 747i INDUSTRIAL WORKSTATION

System Standard Features

- 50 Mhz PA-RISC processor
- Delivers 69 SPECmarks, 63 MIPS, 13MFLOPS
- Configurable with 16 to 128 MB main memory
- Configurable with one internal 3.5" fixed disk and two additional 3.5" internal fixed or removable media devices or one 3.5" and one 5.25".
- HP-IB Instrument Interface
- HP-HIL Interface
- Centronics Parallel Interface
- 2 asynchronous RS-232 Interfaces
- SCSI-II Interface
- Local Area Network - IEEE 802.3 Ethernet - AUI Connector
- Voice Quality Audio I/O
- 2 EISA Interface Slots
- 1 SGC
- 6 VMEbus slots
- HP-UX 9.0 Run-Time, 2 user license-to-use
- Documentation:
Installation Guide
Configuration Guide
- Warranty 1 year 3-day response on-site repair

MODEL 747i SYSTEM

Options Diagram



MODEL 747i INDUSTRIAL WORKSTATION – STANDARD CONFIGURATIONS

(support Factory Integrated Options)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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MODEL 747i COLOR WORKSTATION

A2639A	Model 747i Industrial Workstation 14" 1024 X 768 Color Monitor, HP-UX LTU, 16 MB ECC RAM <i>Note: 747i requires second power cord must order additional localized power cord option., Does not include software</i> <i>Requires SICL (Standard Interface Control Library) Media/Manuals to enable HP-IB Instrument Interface (PN E2091A)</i> Available Options: ADY, ADR, ADV, AN8, ANE, ANS, FRT, AT9, AT7, AMB, AMZ, AMY, AM8, AMW, AMX, OS0, OS1, OS2, OS3	Localization kit	\$15,990.	\$801.
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STANDARD INSTRUMENT CONTROL LIBRARY (SICL)

E2091B	SICL for S700 Development Environment; Includes Media and Manuals		\$500.	
#AAF	Provides SICL software on CD ROM media		N/C	
#AAH	Provides SICL software on DDS (4mm DAT) tape		N/C	

MODEL 747i--FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Display				
#ADR	Replace 14" 1024 X 768 color monitor with 17" 1024 X 768 color monitor	Industrial Workstation	\$1,000.	
#ADV	Replace 14" 1024 X 768 color monitor with 19" 1280 X 1024 color monitor	Industrial Workstation	\$2,100.	
#ADY	Delete 14" 1024 X 768 Monitor (May not order concurrently with options ADR or ADV)	Industrial Workstation	-\$400.	
Memory (Maximum of one factory integrated memory option per workstation)				
#AN8	Add 16 MB memory, for total 32 MB Note: Adds pair 8 MB modules, No available RAM slots		\$1,600.	
#ANE	Configure with 64 MB System RAM Note: Uses pair 32 MB modules, One available pair of RAM slots		\$9,600.	
#ANS	Configure with 128 MB System RAM Note: Uses two pair 32 MB modules, No available RAM slots		\$20,800.	
Internal Storage (Maximum of three factory integrated internal storage options per workstation)				
#FRT	Access to removeable media from front of system (default orientation of 747i is back)		N/C	
#AT9	Add 525MB Single-Ended SCSI-II Disk (May order two per workstation)		\$2,200.	
#AT7	Add 1GB Single-Ended SCSI-II Disk (May order three per workstation)		\$3,850.	
#AMB	Add 1.4MB 3.5" SCSI-II floppy disk drive Note: May NOT order more than one per workstation May NOT order concurrently with option AMY, or A3w		\$525.	
#AM8	Add 600MB 5.25" CD ROM SCSI-II drive Note: May NOT order more than one per workstation May NOT order concurrently with option AMW, AMX		\$1,050.	
#AMW	Add 2 GB 3.5" DDS SCSI-II tape drive for 5.25" storage bay Note: May NOT order more than one per workstation, May NOT order concurrently with option AMX, AM8, AMZ, or AMY		\$2,625.	
#AMX	Add 4-8GB (with data compression) DDS Tape Drive for 5.25" storage bay Note: May NOT order more than one per workstation, May NOT order concurrently with option AMW, AM8, AMZ, or AMY		\$3,675.	
#AMY	Add 2GB DDS Tape Drive for 3.5" storage bay Note: May NOT order more than one per workstation, May NOT order concurrently with option AMW, AMX, AMY or AMB		\$2,625.	
#AMZ	Add 4-8GB (with data compression) DDS Tape Drive for 3.5" storage bay Note: May NOT order more than one per workstation, May NOT order concurrently with option AMW, AMX, AMZ or AMB		\$3,675.	



MODEL 747i-FACTORY INTEGRATED OPTIONS

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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Support (Maximum of one warranty upgrade and installation)

#0S0 Hardware: Upgrades warranty to 1-year next-day
on-site repair, support-line access, license-to-use updates.*

#0S1 Hardware: Upgrades warranty to 1-year 4-hour
on-site repair, support-line access, license-to-use updates.*

#0S2 Hardware: Upgrades warranty to 1-year next-day
on-site repair, Software Phone Assistance (HP-UX),
support-line access, license-to-use updates.*

#0S3 Hardware: Upgrades warranty to 1-year 4-hour
on-site repair, Software Phone Assistance (HP-UX),
support-line access, license-to-use updates.*

#0S4 Installation
System installation, configuration and verification.

* Media & documentation updates available – see support section

Support Options for 747i Standard Configurations

Option price includes indicated level of support for standard configuration and all factory integrated options for the first year following delivery.

		0S0 Next Day	0S1 4 hour	0S2 Next Day phone sup.	0S3 4 hour phone sup.	0S4 Installation
745I	A2639A	801	1116	1449	1764	428



MODEL 747i – ADD-ON OPTIONS (customer or field installed)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
Internal Storage				
A2640A	Add 525 MB Single-Ended SCSI-II Disk (Fits in either 3.5" or 5.25" storage bay)		\$2,200.	
A2641A	Add 1 GB Single-Ended SCSI-II Disk (Fits in either 3.5" and 5.25" storage bay)		\$3,850.	
A2642A	Add 2 GB DDS Tape Drive (Fits in either 3.5" and 5.25" removeable media bay)		\$2,625.	
A2643A	Add 4-8 GB(with data compression) DDS Tape Drive (Fits in either 3.5" and 5.25" removeable media bay)		\$3,675.	
A2644A	Add 600 MB 5.25" CD ROM Drive		\$1,050.	
A2645A	Add 1.4 MB 3.5" Flexible Disk Drive (Fits in either 3.5" and 5.25" removeable media bay)		\$525.	

PARTS ALREADY ON CPL TO SUPPORT CUSTOMER UPGRADES

C1503-60100	3.5" face plate (bessel) to move factory Integrated DAT drive from 5.25" bay to 3.5" bay
C1503-60200	5.25" face plate (bessel) to move factory Integrated DAT drive from 3.5" bay to 5.25" bay

RACK MOUNTING KITS FOR S700I AND 14"/17" MONITORS

5062-3978	745I Rack-mounting Flange Kit	\$35.
5062-3981	747I Rack-mounting Flange Kit	\$35.
5062-3984	745I Rack-mounting Flange Kit w/handles	\$80.
5062-3987	747I Rack-mounting Flange Kit w/handles	\$80.
E3901A	14" Monitor Rack Mounting Kit (for D1195A)	\$175.
E3902A	17" Monitor Rack Mount Kit (for A1497A)	
12131A	Keyboard/Retractable Rack Mount with Lock	\$360.

747I SUPPORTED SGC GRAPHICS UPGRADES

A2269A	Adds Dual CRX accelerated color graphics and two CRTs to 747i, includes SGC CRX card and two 19" 1280 X 1024 color monitors	\$17,850.	\$195.
98768A	Adds CRX accelerated color graphics and a 19" 1280 X 1024 color monitor to 747i	\$9,450.	\$225.
A2094A	19" 1280 X 1024 color monitor	\$3,400.	

SGC graphics option operate concurrently with on-board graphics. The 747i functions as a single workstation, accepting user input from a single keyboard, but delivering graphics output through up to three monitors.

The 747i has only one SGC interface, A2269A and 98768A upgrade products may not be used concurrently.

The 747i optional 19" 1280 X 1024 color monitor is a different model than the monitor supplied with the CRX upgrades. If monitor consistency is important the 747i monitor can be deleted and a standalone 19" 1280 X 1024 color monitor of the same model as the CRX upgrades can be ordered (PN A2094A)



HP-UX 9.0 INSTANT IGNITION

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
B2910A	English Instant Ignition*		N/C	
B2911A	Japanese Instant Ignition*		\$635.	
B2912A	German Instant Ignition*		N/C	
	*Common Options for B2910A, B2911A and B2912A			
APH	Preload HP-UX 9.0		\$105.	
AAB	Backup CD-ROM Kit		\$520.	
ATB	100 MB of swap space on first disk		N/C	
ATC	200 MB of swap space on first disk		N/C	
ATD	500 MB of swap space on first disk		N/C	
ATE	100 MB of swap space on second disk		N/C	
ATF	200 MB of swap space on second disk		N/C	
ATG	500 MB of swap space on second disk		N/C	

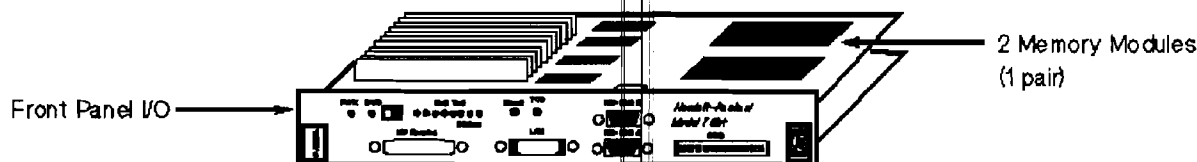
The Series 700i Industrial Workstation is part of the new PA 7100 family and is compatible with most add-on options for this family of products.

For specific detail on supported options consult the Series 700i Industrial Workstation Price & Configuration Guide, part number 5091-5242EUS.



MODEL 742rt INDUSTRIAL WORKSTATION**System Standard Features**

- 50 Mhz PA-RISC 7100 processor, 61 MIPS
- Cache size of 64Kbyte for instruction and 64Kbyte for data
- On-board 8 MByte ECC RAM
- SCSI-II Interfaces
- LAN AUI
- HP Parallel interface (Centronics standard)
- 2 asynchronous RS-232-C serial ports
- Three on-board timers and time-of-day clock with battery back-up
- HP-RT license-to-use
- Installation instruction sheet
- One-year return to HP warranty

MODEL 742rt SYSTEM**Options Diagram****Model 742rt**

MODEL 742rt REAL-TIME SYSTEMS – STANDARD CONFIGURATIONS

(support Factory Integrated Options)

PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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MODEL 742rt VME BOARD COMPUTER

A2260A	Model 742rt On-board 8 Mbyte ECC RAM, on-board I/O consisting of a SCSI-II, LAN AUI, HP Parallel (Centronics standard), and two serial ports (RS232-C). Three on-board timers and time-of-day clock with battery back-up, HP-RT license-to-use, installation instruction sheet, one year return to HP warranty. Requires a MAU purchase to connect to LAN. Available Options: ANB, ANC, ANE, 0S0, 0S1, 0S2, 0S3		\$7,995.	\$558.
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MODEL 742rt-FACTORY INTEGRATED OPTIONS

Memory

#ANB	Upgrades to 16MB	\$800.
#ANC	Upgrades to 32Mb	\$4,800.
#ANE	Upgrades to 64MB	\$10,400.

Support *(Maximum of one warranty upgrade and installation)*

- #0S0 Hardware: Upgrades warranty to 1-year next-day**
on-site repair, support-line access, license-to-use updates.*
- #0S1 Hardware: Upgrades warranty to 1-year 4-hour**
on-site repair, support-line access, license-to-use updates.*
- #0S2 Hardware: Upgrades warranty to 1-year next-day**
on-site repair, Software Phone Assistance
support-line access, license-to-use updates.*
- #0S3 Hardware: Upgrades warranty to 1-year 4-hour**
on-site repair. Software Phone Assistance
support-line access, license-to-use updates.*
- #0S4 Installation**
System installation, configuration and verification,

* Media & documentation updates available – see support section

Support Options for 742rt Standard Configurations

Option price includes indicated level of support for standard configuration and all factory integrated options for the first year following delivery.

		0S0 Next Day	0S1 4 hour	0S2 Next Day phone sup.	0S3 4 hour phone sup.	0S4 Installation
742rt,	A2260A	558	626	1206	1274	428



PRODUCT NUMBER	DESCRIPTION	PREREQUISITE	LCP	NEXT DAY SERVICE
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MODEL 742rt-ADD-ON OPTIONS**Networking**

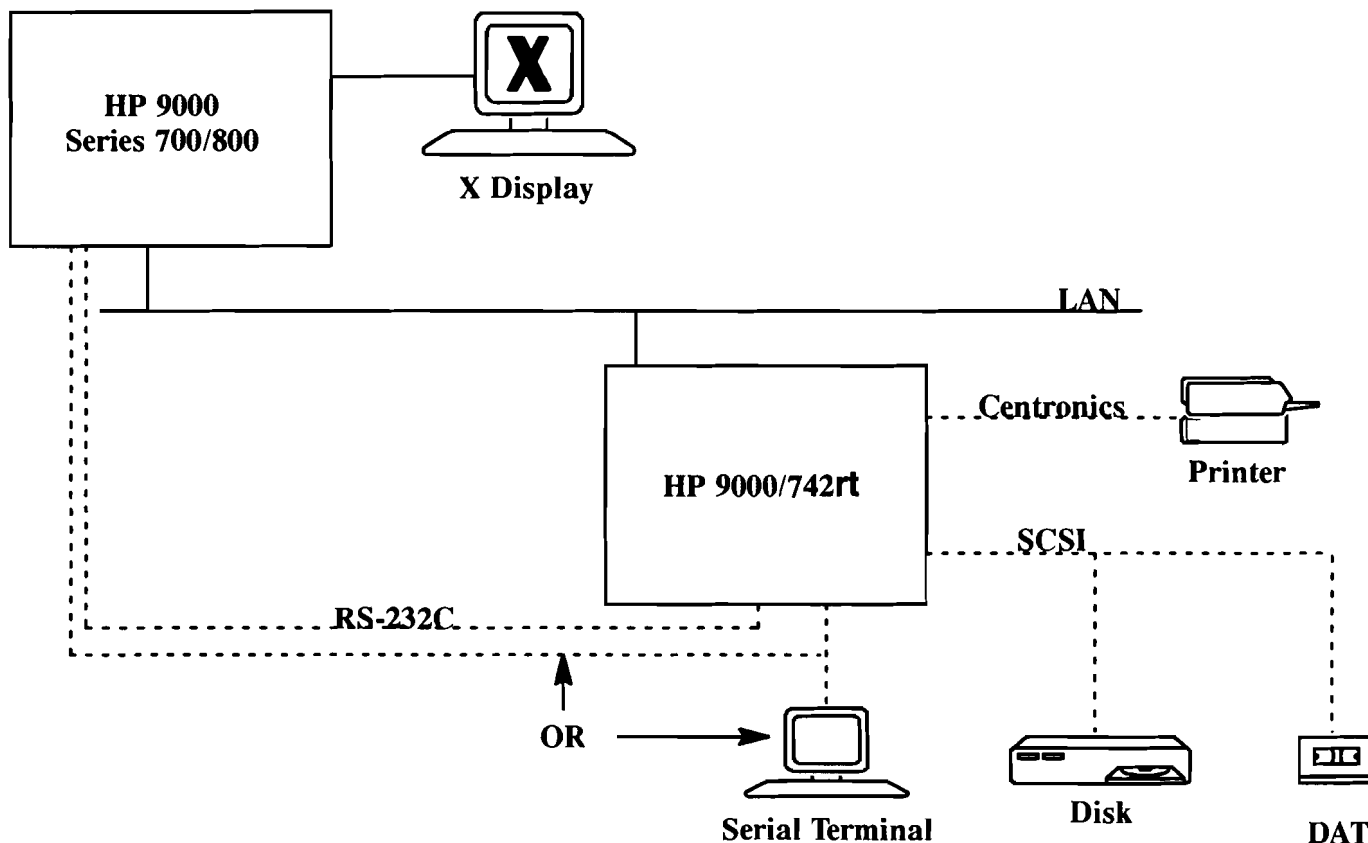
28641B	ThinLAN Transceiver		\$239.	
28683A	Fiber-Optic Transceiver		\$499.	
28685A	EtherTwist Transceiver		\$159.	
30241A	ThickLAN Transceiver		\$400.	
92264D	1-meter thinAUI cable, terminated			
92254J	5-meter thinAUI cable, terminated			
92254A-D	6-, 12-, 24-, 48-meter thinAUI cables, terminated other jacket material made of FEP Teflon			
92254E-H	6-, 12-, 24-, 48-meter thinAUI cables, terminated other jacket material made of PVC			



HP-RT DEVELOPER'S KIT

HP-RT is a standard based real-time computer operating system for use with the HP 9000 Series 700rt for embedded real-time applications. Real-time applications are found in aerospace, manufacturing, communications and medical/lab industries. Typical embedded applications include industrial automation, measurement automation, and telecommunications.

The HP-RT Developer's Kit provides the tools and libraries required for a real-time application developer to create an HP-RT operating system and its applications. The Developer's Kit is hosted on a HP 9000 Series 700 or 800 server. The developer needs to be logged into the server viz X display station on a workstation or X terminal. In the case of a Series 700 workstation server, the developer may reside on the workstation. The target system must be an HP Series 700rt VMEbus board computer. The following diagram shows a typical single user development environment. Multi-user and multi-target configurations may also be possible.



System Standard Features

- Complies to IEEE POSIX 1003.1 standard
- Follows POSIX 1003.4 draft 9/10 for real-time extensions
- Follows POSIX 1003.4 draft 3/4 for process level threads
- Many SVID/BSD commands and functions provided
- Tuned for HP PA-RISC architecture
- Local disk and LAN boot support
- Local disk and memory-based (diskless) operation support
- HP-UX development environment used for designing, compiling and linking real-time applications and HP-RT kernels
- Run-time libraries and header files for C/ANSI C and C++ programs
- HP-UX hosted Symbolic cross debuggers for kernel, driver and application development
- Networked File System services
- Serial Line IP support
- X11R5 client and OSF/Motif libraries

HP-RT DEVELOPER'S KIT

PRODUCT NUMBER	DESCRIPTION	LCP
<i>Ordering an HP-RT Developer's Kit requires two products; a license-to-use product and a media and documentation product. These are covered below:</i>		
B3138A	HP-RT Developer's Kit License-to-Use This product provides a license for developers to use the HP-RT Developer's Kit to develop high performance real-time applications. One license is required for each HP-UX S700 or S800 development host server. The media and documentation may be purchased by ordering B3127A or B3128A.	N/C
#UA0	Single User License This license allows a single user to access a single copy of the HP-RT Developer's Kit residing on one HP-UX server.	\$9,995.
#0A9	Ten User License This license allows ten (10) users to access a single copy of the HP-RT Developer's Kit residing on one HP-UX server.	\$32,495.
B3127A	HP-RT Developer's Kit Media and Documentation for HP 9000/S700 The HP-RT Developer's Kit provides the C/ANSI C, C++ , X client and Motif libraries and tools for programmers to generate and develop an HP-RT real-time target kernel, drivers, and its applications. It is hosted on an HP 9000 Series 700 running HP-UX 9.0. Concurrent or previous purchase of an HP-RT Developer's Kit LTU is required. This product assumes that the developer is familiar with HP-UX, C/ANSI C, C++ , and X. HP-RT runtime libraries for C/ANSI C and C++ . Includes POSIX.1 system calls, .4 (draft 9/10) real-time extensions, and .4a (draft 3/4) process threads. Requires a previous purchase of appropriate compiler for host HP-UX/PA system. HP-RT kernel generation files and tools. Interactive commands; including many SVID and BSD commands. Full NFS support. ARPA/Berkeley Networking Services. SLIP support. VMEbus driver development tools. Sample source code of a VMEbus driver. Software installation instructions. Symbolic cross application debugger. Symbolic cross driver and kernel debugger. X11R5 Window (X client services only) and OSF/Motif libraries. PEX support not included.	N/C
#AAH	Provides software on 1/4" DDS (4mm) tape	\$195.
#AAU	CD-ROM certificate Required to access software on HP-UX CD-ROM media.	\$195.
#0BJ	Add hardcopy manual POSIX Programmer's Guide (IEEE). Realtime Extensions for Portable Operating Systems POSIX 1003.4 (IEEE). HP-RT Reference Manual. Application Programming in the HP-RT Environment. HP-RT System Administration Tasks. Driver Writing in the HP-RT Environment. HP-RT Symbolic Debugger User's Guide.	\$995.



PRODUCT
NUMBER

DESCRIPTION

LCP

HP-RT/UX BACKPLANE NETWORKING**B3131A HP-RT/UX Backplane Networking Hosted on HP9000 Series 700 \$3,495.**

This product provides two (2) licenses, documentation, and software for the installation and usage of the HP-RT/UX Backplane Networking; allowing an HP-RT system to communicate with other HP-RT, HP-UX* (Release 9.0) or Vxworks** (Release 5.0) systems. One License is required for each HP-RT or HP-UX system to which the Backplane Networking services will be installed in. The software is hosted on the development host and installed into the appropriate kernel.

Two HP-RT/UX Backplane Networking licenses.

HP-RT Backplane Networking Reference Manual.

Software on appropriate media (must choose one of the following options).

NOTE *: The Backplane Networking product can be installed on an HP 9000 Series 700i HP-UX workstation supporting a VMEbus.

NOTE **: VxWorks is a product of Wind Rivers Systems of Alameda, CA. VxWorks backplane driver is supplied in its base product.

#AAH Provides software on 1/4" DDS (4mm) tape \$195.

#AAU CD-ROM certificate Required to access software on HP-UX CD-ROM media. \$195.

B3174A Additional HP-RT/UX Backplane Networking License-to-Use \$395.

This product provides an additional license to install and use the Backplane Networking product. One license is required for each HP-RT or HP-UX system where the Backplane Networking product will be installed into. The Backplane Networking media must be purchased concurrently or previously with the LTU. A previous or concurrent purchase of the HP-RT Backplane Networking media product is required (B3131A or B3132A).



SOFTWARE INTRODUCTION

Adding Software To The Series 700

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This section uses the term "layered software product" to describe extra-cost software ordered in addition to HP-UX, such as the C/ANSI C Developers Bundle.

Ordering Core HP-UX

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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 must be explicitly loaded onto the workstation's disk by one of two methods:

Method A - Instant Ignition

Order Instant Ignition. Instant Ignition loads the HP-UX 2-user Run-Time on internal disk drives. For workstations introduced after September 1, 1992, including the Models 715, 725, 735, 745i, 747i and 755, Instant Ignition can be ordered by specifying the product B2910A for the English version, B2911A for the Japanese version, and B2912A for the German version. Detailed ordering instructions for these Instant Ignition products can be found in the Instant Ignition Step-by-Step Ordering Instructions.

Certain layered software products can be preloaded in combination with the HP-UX 2-user Run-Time Environment. If a layered product had an option 0D1, then it can be preloaded with B2910A, B2911A, or B2912A. The option 0D1 only applies to the new Series 700 workstation introduced after September 1, 1992.

For Series 700 *Standard Configurations* introduced before September 1, 1992, including the Models 705, 710, 720, 730, and 750, HP-UX 8.07 2-user Run-Time can be preloaded by ordering option 0DJ with the hardware. Starting December 1, 1992, HP-UX 9.0 can be preloaded by ordering option 0DK with the hardware.

Model 710 Quick-Ship *Bundled Configurations* include Instant Ignition in the base product. HP-UX 8.07 will be preloaded on Bundled Configurations until January 4, 1993. After January 4, 1993, HP-UX 9.0 will be preloaded on the Bundled Configurations.

Method B - Order Media

Order the HP-UX software on either CD-ROM media or DDS (Digital Audio Tape or DAT) format. The software can be loaded from the media onto the workstation's disk.

Regardless of which method of loading HP-UX Run-Time is used, at least one copy of HP-UX media is strongly recommended per workgroup, primarily for recovery, installation, and administrative needs. All HP-UX media products include a core set of installation and administration documentation.

Ordering HP Software for the Series 700

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In addition to HP-UX Run-Time, other HP-UX products are available, such as developer products and languages. Ordering these products involves using "dependent options." To order Series 700 software, follow these general procedures for CD-ROM, DDS tape and Instant Ignition.

CD-ROM Customers

Order one of the HP-UX Software on CD Media products, B2826B (HP-UX 9.0 version) or B2826A (HP-UX 8.07 version). HP-UX 9.0 is required for Models 715, 725, 735, 745i, 747i, and 755. Version 9.0 is recommended for older Series 700 systems unless there is a strong reason to keep running Version 8.07.

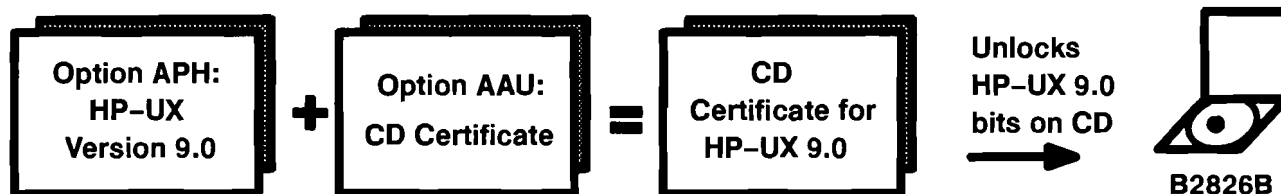
Most HP software distributed on CD-ROM comes loaded on the discs included in B2826B and B2826A. Most of the applications can only be accessed using a special codeword that "unlocks" them. Option AAB for the HP-UX Software on CD Media provides a kit with a pre-computed codeword and an HP-HIL ID module. The codeword unlocks any layered applications that are ordered on the same order section as the CD kit. Option AAF provides a CD kit without an HP-HIL ID module.



CD-ROM Customers

When a software product is ordered with option AAU, it provides a certificate that entitles the user to call HP for a codeword to unlock the software. The certificate contains instructions on how to contact HP for the codeword. The process requires that the customer provide the hardware ID (Ethernet address), CD disk part numbers, and information from the entitlement certificates. HP provides a codeword within eight hours of the request.

When ordering the CD-ROM version of a layered software product, such as B2354A, C/ANSI C Developers Bundle, order the appropriate version (APH for 9.0, APF for 8.07) and option AAU, CD-ROM Certificate. This combination provides a certificate to get a codeword to unlock C/ANSI C Developers bundle from the 9.0 CD.



If 8-user HP-UX Run-Time environment is desired, order product number B2353A with option APH for HP-UX 9.0 or option APF for 8.07, and option AAU for the CD certificate.

More detailed information about ordering software on CD-ROM can be found in the Field Training Manual for HP-UX Software on CD-ROM.

DDS (DAT) Customers

If a 2-user HP-UX Run-Time Environment is desired, order B2352A with option AAH (DDS Tape) and either option APH for the HP-UX 9.0 version or APF for the HP-UX 8.07 version of the DDS Tape.

If an 8-user HP-UX Run-Time Environment is desired, order B2353A with option AAH and either option APH for the HP-UX 9.0 version or APF for the HP-UX 8.07 version

To order layered software products, such as B2354A, C/ANSI C Developers Bundle, on DDS Tape, order the product with option AAH (DDS Tape) and the desired version option (APH for HP-UX 9.0 and APF for HP-UX 8.07).

**Instant Ignition**

A number of layered software products can be ordered preloaded with Instant Ignition. The way to identify if a product is preloadable is if it has an option 0D1 (Factory Integration). Preloadable products as of November 1992 include HP-UX 8-user Run-Time, C/ANSI C Developers Bundle, HP-UX Developers Toolkit, HP-UX General Programming Tools, C Compiler, Fortran, and Pascal.

Note that option 0D1 only applies when ordered in combination with a 715, 725, 735, 745i, 747i, or 755 workstation and one of the new Instant Ignition products (B2910A (English), B2911A (Japanese), or B2912A (German)).

See the Instant Ignition Step-by-Step Ordering Instructions section for details and a checklist on how to order preloaded layered software products with Instant Ignition.

Ordering Documentation for HP 9000 Series 700

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

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CD-ROM documentation

Order the HP-UX Series 700 Documentation base product (B2355B for HP-UX 9.0 or B2355A for HP-UX 8.07) and option #0BC to get the documentation on CD-ROM with a one-user license-to-use. Documentation on CD-ROM provides an easy-to-user interface with keyword search and browse capabilities, along with the ability to create custom bookshelves, bookmarks and notes.

Multiple users can access the documentation across a Local Area Network by purchasing additional user licenses. These are available in multiples of four by ordering the 4-user add-on option (#UA2). Some documentation is not available on CD-ROM. To get hardcopy versions of the manuals not on CD, order option #0BJ.

Hardcopy documentation

There are three ways to order hardcopy documentation:

1. As a document set option to the HP-UX Series 700 Documentation base product (B2355B for HP-UX 9.0 version B2355A for HP-UX 8.07 version).
2. As an option to a software license (option #0BJ).
3. As an individual document from the HP Apollo Direct Channel or from HP Direct Marketing Division.

To order the document sets, simply order the base product (B2355B for HP-UX 9.0 version or B2355A for 8.07 version) and the desired document set option. To order individual documents, see the Document part number table at the back of this software section.

Option APH: HP-UX Version 9.0

Option AAU: CD Certificate CD Certificate for HP-UX 9.0 version

Option APH: HP-UX Version 9.0

Option AAH: DDS Tape Media HP-UX 9.0 version on DDS tape

HP-UX Instant Ignition 9.0 Step-by-Step Ordering Instructions

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1.Choose workstation hardware.

The new Instant Ignition 9.0 products are valid for ordering with HP 9000 Series 700 Models 715, 725, 735, 745i, 747i, and 755.

If the HP-UX operating system is to be preloaded, the workstation *must* have an internal disk drive. Some workstations have an internal disk in the base configuration. Other base configurations are diskless and require an option to get a disk. Instant Ignition will not preload any external disks that are ordered with workstations.

Instant Ignition 9.0 is not valid for ordering with Model 715 Quick-Ship Bundled Configurations.

2.Choose one of the Instant Ignition products to preload HP-UX Run-Time.

Instant Ignition comes in English (B2910A), Japanese (B2911A), and German (B2912A) versions.

English Instant Ignition, B2910A, preloads the HP-UX 2-User Run-Time product.

Japanese Instant Ignition preloads and preconfigures HP-UX 2-User Run-Time, Japanese NLIO and the Japanese message catalogs. VUE comes up in Japanese on this version.

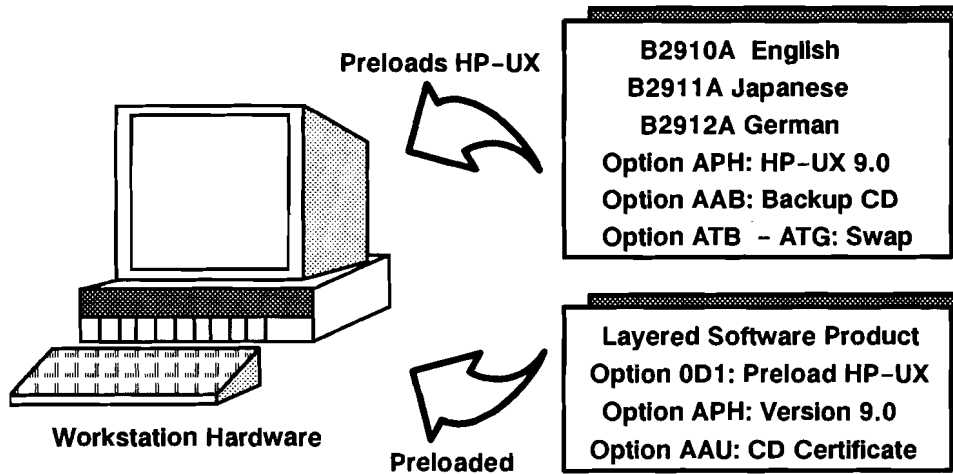
German Instant Ignition preloads and preconfigures HP-UX 2-user Run-Time, and adds the German message catalogs. VUE comes up in German on this version.



3. Choose which version of HP-UX is to be preloaded.

The quantity of the Instant Ignition product and option APH *must* be equal to the quantity of workstations.

At the present time, 9.0 (option APH) is the only version of HP-UX that can be preloaded. We expect that other versions will be available in the future.



The Instant Ignition APH option, in addition to loading HP-UX 9.0, includes custom recovery instructions for the workstation in the event of later disk problems. These recovery instructions tell the user or HP field personnel. The document includes information about how the disk was configured for the particular system, what software products are preloaded, and other important information for the customer to get back to the original Instant Ignition configuration.

4. Determine which type of backup media is needed.

If CD-ROM backup media is needed, order the CD-ROM option (option AAB). This option supplies the HP-UX CD-ROM kit, including the Installation CD, the HP-UX CD, that application CD, and the Support CD.

The kit also includes an HP ID module and precomputed codeword that unlocks all applications that are preloaded on the workstation.

If DDS backup media is needed, order product number B2352A, options APH and AAH, to get an HP-UX 9.0 DDS tape.

5. Choose swap space option(s).

Swap space is available in six different options. These options are available only for internal disk drives. Any external disk drives ordered with the workstation will not be preloaded. Following is important information about swap space configuration.

If a swap option is not ordered, then swap space will automatically be calculated based on memory in the workstation and what applications are to be preloaded.

When a two-disk configuration is ordered with Instant Ignition, the second disk is automatically formatted and the /usr filesystem is contained on that disk. The first disk contains the root filesystem.

Table 1: Swap Options for First Disk Drive

Option	Description
ATB	100 megabytes swap on first disk
ATC	200 megabytes swap on first disk
ATD	500 megabytes swap on first disk

**Table 2: Swap Options for Second Disk Drive**

Option	Description
ATE	100 megabytes swap on second disk
ATF	200 megabytes swap on second disk
ATG	500 megabytes swap on second disk

Option ATE, ATF, and ATG are only valid for two-disk systems.

Only one of option ATB, ATC, or ATD may be ordered for the first disk. Only one of ATE, ATF, or ATG may be ordered for the second disk.

It is a technical requirement for any workstation to have swap space on the first disk drive. Therefore, if no swap option is ordered on the first disk drive, a small amount of swap space will be configured on the first disk so it can boot.

The 100 megabyte and 200 megabyte swap options are available on 525 megabyte, 1 gigabyte, and 2 gigabyte disk drives. The 500 megabyte swap options are available only on 1 gigabyte and 2 gigabyte disk drives.

Table 3 is a matrix of the valid swap options for each of the available disk drives. "O" indicates a valid configuration. "N/A" indicates an invalid configuration.

Table 3: Valid Swap Options Matrix

Option	Description	525 MB	1 Gigabyte Disk	2 Gigabyte Disk
ATB	100 MB swap first disk	O	O	O
ATC	200 MB swap first disk	O	O	O
ATD	500 MB swap first disk	N/A	O	O
ATE	100 MB swap second disk	O	O	O
ATF	200 MB swap second disk	O	O	O
ATG	500 MB swap second disk	N/A	O	O



8. Make the keyboard kit, Instant Ignition, and layered software products subitems of the workstation hardware.

In quotations and orders, use a numbering scheme like this:

Table 5: Item/Subitem Number Example

Item	Description
010001	Workstation base product
010002	Workstation option #1
010003	Workstation option #2
010101	Keyboard kit
010102	Keyboard kit option #1
010103	Keyboard kit option #2
010201	Instant Ignition
010202	Instant Ignition option #1
010202	Instant Ignition option #2
010301	Application to be preloaded
010302	Application option #1
010303	Application option #2

Making the keyboard and software subitems of the workstation is the only way the factory can properly load the software and assure that all material ships together, so this numbering scheme must be used in quotations and orders or the order cannot be built and shipped.

9. Order Example

This is an example order for two identical HP 9000 Model 755 systems that have two 2 gigabyte internal disk drives, English Instant Ignition, and the C/ANSI C Developers Bundle preloaded. This configuration must be on its own order section, and if there are any other configurations on the order, they must go on another order section.

Table 6: Example Model 755 Order

	Item	Product Number	Option	Description	Quantity
Workstation	010001	A2551A		755, 19" Color Monitor, 64 MB RAM, 1 internal 2 GB disk drive	2
	010002		AT6	Add 2 GB Single-ended SCSI disk	2
Localization Kit	010201	A1099C		Localization kit with HP keyboard	2
	010202		APH	HP-UX 9.0 Version	2
	010203		ABA	American English keyboard	2
Instant Ignition	010301	B2910A		English Instant Ignition	2
	010302		APH	HP-UX 9.0 Version	2
	010303		AAB	CD-ROM Backup Kit	1
	010304		ATC	200 MB swap space on first disk	2
	010305		ATF	200 MB swap space on second disk	2
C/ANSI C Developers Bundle	010401	B2354A		C/ANSI C Developers Bundle	2
	010402		APH	HP-UX 9.0 version	2
	010403		OD1	Factory Integrated	2
	010404		AAU	CD-ROM Certificate	2

Instant Ignition Ordering Checklist

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Please keep this checklist handy when ordering workstations with Instant Ignition and preloaded applications. Details on each of these items are in the Instant Ignition 9.0 Step-by-Step Ordering Instructions.

Table 1: Instant Ignition Ordering Checklist

✓	Ordering Step
✓	Choose workstation hardware (workstation must have one or two internal disks). Applies only to Models 715, 725, 735, 745i, 747i, and 755.
✓	Choose localization kit with keyboard and mouse
✓	Choose Instant Ignition product and options
✓	Choose layered software products to be preloaded
✓	Make the localization kit, Instant Ignition, and preloaded software subitems of the hardware when quoting and entering the order
✓	Put each unique configuration of hardware and preloaded software in its own order section

This section provides product descriptions for English, Japanese, and German Instant Ignition.

Please see the Instant Ignition 9.0 Step-by-Step Ordering Instructions for more details and examples.

1. This product may only be ordered with 715, 725, 735, 745i, 747i, and 755 workstations.
2. Option APH must be ordered.
3. Option APH includes customized recovery instructions for the system.
4. If a swap space configuration is not ordered, then a swap space configuration will be automatically calculated.
5. Only one of option ATB, ATC, or ATD may be ordered per workstation configuration.
6. Only one of option ATE, ATF, or ATG may be ordered per workstation configuration. Options ATE, ATF, and ATG are only valid for workstations ordered with two internal disk drives.



Table 1: B2910A – English HP-UX Instant Ignition Product

Table 1. B2910A—English HP-UX Instant Ignition Product				
	Product Number	Option	Description	U.S L.C.P.
	B2910A		English HP-UX Instant Ignition	N/C
Version		#APH	HP-UX 9.0 Version	\$105.
Backup Media		#AAB	Backup CD-ROM kit. Includes full HP-UX CD set with ID module and codeword.	\$520.
First Disk Swap Option		#ATB	100 megabytes swap space on first disk	N/C
		#ATC	200 megabytes swap space on first disk	N/C
		#ATD	500 megabytes swap space on first disk	N/C
Second Disk Swap Option		#ATE	100 megabytes swap space on second disk. (Two-disk systems only).	N/C
		#ATF	200 megabytes swap space on second disk. (Two-disk systems only).	N/C
		#ATG	500 megabytes swap space on second disk. (Two-disk systems only).	N/C

Table 2: B2911A – Japanese HP-UX Instant Ignition Product

	Product Number	Option	Description	U.S. L.C.P.
	B2911A		Japanese HP-UX Instant Ignition	\$635.
Version		#APH	HP-UX 9.0 Version	\$105.
Backup Media		#AAB	Backup CD-ROM kit. Includes full HP-UX CD set with ID module and codeword.	\$520.
First Disk Swap Option		#ATB	100 megabytes swap space on first disk	N/C
		#ATC	200 megabytes swap space on first disk	N/C
		#ATD	500 megabytes swap space on first disk	N/C
Second Disk Swap Options		#ATE	100 megabytes swap space on second disk. (Two-disk systems only).	N/C
		#ATF	200 megabytes swap space on second disk. (Two-disk systems only).	N/C
		#ATG	500 megabytes swap space on second disk. (Two-disk systems only).	N/C



Instant Ignition Ordering Checklist**Table 3: B2912A – German HP-UX Instant Ignition Product**

	Product Number	Option	Description	U.S.L.C.P.
	B2912A		German HP-UX Instant Ignition	N/C
Version		#APH	HP-UX 9.0 Version	\$105.
Backup Media		#AAB	Backup CD-ROM kit. Includes full HP-UX CD set with ID module and codeword.	\$520.
First Disk Swap Option		#ATB	100 megabytes swap space on first disk	N/C
		#ATC	200 megabytes swap space on first disk	N/C
		#ATD	500 megabytes swap space on first disk	N/C
Second Disk Swap Options		#ATE	100 megabytes swap space on second disk. (Two-disk systems only).	N/C
		#ATF	200 megabytes swap space on second disk. (Two-disk systems only).	N/C
		#ATG	500 megabytes swap space on second disk. (Two-disk systems only).	N/C

Appendix: HP-UX Disk Space Allocation

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This appendix is intended to be used as a reference for technical HP Field personnel and customers who need to assess disk space and swap space requirements for HP-UX Instant Ignition on Series 700. It covers:

- Size of HP-UX Run-Time

- Sizes of preloadable applications

- Swap space considerations

- Techniques for recovering disk space after systems are delivered

This section is recommended reading to avoid configuring an Instant Ignition workstation with too much preloaded software to fit on its disks.

HP-UX Run-Time Environment

HP-UX 9.0 2-user Run-Time Environment for the Series 700, as shipped in the English Instant Ignition configuration, occupies about 180 megabytes of disk space. Japanese and German Instant Ignition occupy somewhat more than 180 megabytes.

In addition to HP-UX 2-user Run-Time, there is additional overhead on the disk drive. It comes in the form of:

- Swap space

- I-nodes

- Minimum free space

Swap Space

Device, or non-dynamic, swap space is set aside when a disk is initialized. It cannot be modified without reformatting the disk. More dynamic swap space can be added if more swap space is needed.



I-nodes

I-nodes and other filesystem overhead occupy approximately 6% of free disk space. Free disk space is what is left after subtracting hard swap space from the raw formatted capacity (disk sizes are specified by their raw formatted capacity, i.e., 525 megabytes). For example, a 525 megabyte disk with 100 megabytes of swap space has 425 megabytes of free space. I-nodes and other overhead occupy about 6% of that, or 26 megabytes.

Minimum free space

Minimum free space, popularly known as "min free," is the minimum percentage of free disk space set aside. When the filesystem capacity reaches this threshold, only the root user is allowed to allocate disk blocks. On Instant Ignition systems, min free is preconfigured to 10% of what is left after device swap and i-nodes are configured. 10% is the default value for HP-UX min free, as filesystem performance tends to degrade drastically when user-accessible disk space is more than 90% utilized. 10% is generally recognized as the optimum min free value by the industry.

Space Calculations

Taking these numbers into account, here are some calculations for free disk space on a delivered Instant Ignition 525 megabyte disk drive with 100 megabytes swap space (a typical swap configuration for a 525 megabyte disk), a 1 gigabyte disk drive with 200 megabytes of swap space, and a 2 gigabyte disk with 200 megabytes of swap space. Note that these are examples, and these calculations need to be run for each particular configuration of disk drive and swap space. These numbers are approximate and can vary.

525 megabyte disk/100 megabyte swap calculation:

525	megabytes	Raw formatted capacity
- 100	megabytes	Swap space
- 26	megabytes	6% i-node and filesystem overhead
- 40	megabytes	10% minimum free space
-180	megabytes	HP-UX Run-Time

179	megabytes	Free space left for user data and apps

1 gigabyte disk/200 megabyte swap calculation:

1000	megabytes	Raw formatted capacity
- 200	megabytes	Swap space
- 48	megabytes	6% i-node and filesystem overhead
- 76	megabytes	10% minimum free space
- 180	megabytes	HP-UX Run-Time

496	megabytes	Free space left for user data and apps

2 gigabyte disk/200 megabyte swap calculation:

2000	megabytes	Raw formatted capacity
- 200	megabytes	Swap space
- 108	megabytes	6% i-node and filesystem overhead
- 170	megabytes	10% minimum free space
- 180	megabytes	HP-UX Run-Time

1342	megabytes	Free space left for user data and apps

Two-Disk Systems

On Series 700 systems with two internal disk drives, there are two filesystems. Instant Ignition automatically configures the */usr* filesystem on the second disk. Min free for both disks is calculated based on the amount of swap on each disk (min free is 10% of what is left after swap and i-nodes are set aside). If there are different amounts of swap space on the two disks, they will have different min free amounts configured, even though the min free percentage is fixed at 10%.

Note that the */usr* filesystem contains about 80%, or 144 megabytes of the total amount of the HP-UX Run-Time filesystem. This must be considered when swap space is configured on the second disk drive.

To take a worst case example, if 100 megabytes of swap is specified on the first 525 megabyte disk and 200 megabytes of swap space is specified on the second 525 megabyte disk, then the following calculations will apply for the two disks.

First disk:

525	megabytes	Raw formatted capacity
- 100	megabytes	Swap space
- 26	megabytes	6% i-node and filesystem overhead
- 40	megabytes	10% minimum free space
- 36	megabytes	HP-UX Run-Time (root filesystem)

323	megabytes	Free space left for user data and apps

Second disk:

525	megabytes	Raw formatted capacity
- 200	megabytes	Swap space
- 20	megabytes	6% i-node and filesystem overhead
- 31	megabytes	10% minimum free space
- 144	megabytes	HP-UX Run-Time (<i>/usr</i> filesystem)

130	megabytes	Free space left for user data and apps

PRELOADABLE APPLICATION SPACE REQUIREMENTS

Table 1 specifies the disk space that each of the preloadable applications occupies when shipped.

Table 1: Layered Software Disk Space Usage

Layered software product	Disk space usage
8-user HP-UX Run-Time	17 kilobytes
C/ANSI C Developers Bundle	39 megabytes
HP-UX Developers Toolkit	33 megabytes
HP-UX General Programming Tools	5 megabytes
C/ANSI C Compiler	1 megabyte
Fortran	15 megabytes
Pascal	4 megabytes



PLEASE NOTE THE FOLLOWING:

C/ANSI C Developers Bundle is a combination of HP-UX Developers Toolkit, HP-UX General Programming Tools, and the C/ANSI C compiler. Its space usage is the sum of the three products contained in it.

There is some overlap between the filesets contained in C, Fortran and Pascal (mainly debuggers and optimization tools). Therefore, the three products combined take up less disk space than if you add their individual disk space usages together.

To calculate disk space usage for swap, overhead, HP-UX Run-Time, and layered software, simply use the calculations in the HP-UX Run-Time Environment section and add the disk space usage of the layered software.

Example

You want to configure a system with a single 525 megabyte disk, 100 megabytes of swap space, and you want to have C/ANSI C Developers Bundle preloaded. Disk space usage is calculated as follows:

525	megabytes	Raw formatted capacity
- 100	megabytes	Swap space
- 26	megabytes	6% i-node and filesystem overhead
- 40	megabytes	10% minimum free space
-180	megabytes	HP-UX Run-Time
-39	megabytes	C/ANSI C Developers Bundle

140	megabytes	Free space left for user data and apps

Helpful Hint

If the above calculations leave less than about 100 megabytes of free space, then free disk space is probably too small. This is because a typical user will add other applications, produce data files, receive electronic mail and perform other activities that use up disk space quickly. Given that many personal productivity applications occupy 30 megabytes or more of disk space, it is recommended that more disk space be added if there are less than 100 megabytes left over.

SWAP SPACE CONSIDERATIONS

The *Instant Ignition Step-by-Step Ordering Instructions* section contains instructions about valid configurations for swap space. This section adds to that section by providing information about

Picking swap space values for HP-UX

How default swap space is calculated when a value is not chosen

Note that the swap space options to Instant Ignition designate *device* swap, not *filesystem* swap. *Device* swap is configured on the disk and cannot be changed without putting a new filesystem on the disk. *Filesystem* swap is dynamic and is only used when a process needs it. Device swap space is generally faster than filesystem swap space, but performance difference are not noticeable in most situations.

A more in-depth look at swap space can be found in the manual *How HP-UX Works: Concepts for the System Administrator*.

PICKING SWAP SPACE VALUES FOR HP-UX INSTANT IGNITION

The amount of swap space required for basic HP-UX Run-Time is a function of how much memory is in the system and what applications need to be run. The basic requirement for swap space is that the swap needs to be able to hold the *data* portion of the largest running process (the *text* portion of a process swaps to the filesystem). The general rule of thumb is that minimum swap space on a *single user system not acting as a diskless server* should be 1.5 to 2 times the amount of memory in the system.

Picking a swap space value of 100 megabytes on a single-user system with 16 or 32 megabytes of RAM allows plenty of room for future expansion. If a system starts off with 16 megabytes and expands to 32 megabytes or more, there need not be any concern about whether there is enough swap space. Also, as new applications are added, with 100 megabytes of swap space configured on a single-user system, the user will tend to run out of memory before running out of swap space.

If more swap space is needed, then filesystem swap space can be easily added using the SAM utility.

For systems with larger amounts of memory, more swap space is necessary. For example, a system with 64 megabytes of RAM should have at least 200 megabytes of swap space configured.

INSTANT IGNITION SWAP CALCULATION ALGORITHM

When swap space is not ordered with HP-UX Instant Ignition, it is automatically calculated. This section explains how the calculation is done.

Note that when swap is specified on an Instant Ignition order, that value overrides the automatic swap calculation.

The automatic swap space calculation takes the following quantities into account:

Amount of system memory

The operating system and applications to be preloaded. HP-UX default swap space is 75 megabytes.

The calculation occurs as follows:

- 4.) System memory quantity is determined. That number is doubled for systems having less 16 megabytes or less of RAM, and works down to linearly to 1.5 times system RAM for systems having 192 megabytes or more.
- 5.) Swap is set to the total found in step 1;
- 6.) or
- 7.) If the quantity (1.5–2 x System RAM) is less than the HP-UX default swap space value, swap space is set to the HP-UX swap space value, or 75 megabytes.

Example calculations

A Series 700 workstation has 32 megabytes RAM, and Instant Ignition and C/ANSI C Developers Bundle are to be preloaded.

1. (2 x system RAM) is calculated. (2 x 32 MB) = 64 MB
2. Swap requirement for C/ANSI C Developers Bundle is specified as 0. This is added to the HP-UX default swap of 75 megabytes.
3. The total for (2 x RAM), 64 megabytes, is smaller than the 75 megabytes default for basic HP-UX, so swap space is set to the larger of the two, or 75 megabytes.

Another Series 700 workstation has 256 megabytes RAM.

1. (1.5 x system RAM) is calculated. (1.5 x 256 MB) = 384 megabytes
2. 384 megabytes is considerably larger than that amount necessary for default operating system swap (75 megabytes) and any preloadable applications, so swap is set to 384 megabytes.

Recovering Disk Space after Delivery

HP-UX Run-Time Environment is intended to provide the necessary runtime components to successfully run any application written for HP-UX. As such, it includes several large filesets that are of interest to certain customers, but not necessarily to all. Some customers may be able to remove certain runtime filesets without hindering their ability to run their applications.

In particular, some applications require the HP Starbase Runtime components. If a customer is running in a pure X-Window environment, and they know they will not be running any Starbase applications, then the Starbase Runtime can be removed. This is an immediate savings of about 15 megabytes.

Customers who have backup media and who do not feel the need to keep the diagnostic commands on their disks can delete the Core Diagnostics fileset for a savings of about 19 megabytes.

Netinstall allows a cold install of HP-UX over the network from a server. Normally, only a subset of systems on a network need to perform this function. If a Series 700 will never be used as a Netinstall server, about 4.5 megabytes of disk space can be saved.

In addition, customers can move their man pages and X-Window font libraries to external servers to save even further disk space. Moving the font libraries to servers and sharing them can save upwards of 10 megabytes on each client. The man pages can account for several more megabytes.

In summary, depending on how a Series 700 workstation is to be used, several large filesets can be deleted for possible savings of tens of megabytes without affecting the ability to run applications. The *rmfn* (remove functionality) command is quite useful for removing related groups of filesets. More information on this command and other helpful hints for recovering disk space can be found in the *HP-UX System Administration Tasks* and the *Installing and Updating HP-UX 9.0 manuals*.



SOFTWARE ON CD MEDIA

PRODUCT NUMBER	DESCRIPTION	LCP
B2826B	HP-UX 9.0 Software on CD Media. HP-UX 9.0 is required for all Series 700 workstations introduced after September 1, 1992 (715, 725, 735, 745, 747, and 755)	
#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.	\$625.
#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.	\$520.
B2826A	HP-UX 8.07 Software on CD Media. HP-UX is supported only on Series 700 workstations introduced after July 1, 1992. (705, 710, 720, 730 and 750)	
#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.	\$625.
#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.	\$520.

DOCUMENTATION

B2355B	HP-UX 9.0 Documentation.	
#0BC	Documentation on CD-ROM. Includes 1-user license-to-use.	\$835.
#0BJ	Hardcopy manuals which are not provided on CD-ROM option (#0BC)	\$158.
#UA2	4-user add-on for CD-ROM Documentation. Provides license-to-use for 4 additional users on CD-ROM documentation access software. Requires previous purchase of option #0BC.	\$415.
#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>	\$137.
#0BE	HP-UX System Administration and Installation. Includes hardcopy administration and installation manuals for HP-UX, networking, and HP VUE.	\$685.
#0BF	General Programming. Includes hardcopy manuals for assembler, device I/O, native language support and general HP-UX programming techniques.	\$340.
#0BG	HP-UX User's Guides. Includes hardcopy manual for UUCP, mail, text formatting/processing, shells and editors.	\$184.
#0BL	User Environment. Includes hardcopy programming manuals for X Toolkit, Intrinsics, Xlib, HP VUE and OSF/Motif environment.	\$730.
#0BM	Starbase. Includes hardcopy programming manuals for Starbase, Starbase Display List, and Radiosity an Ray Tracing.	\$1,025
#0BT	C/ANSI C. Includes Hardcopy manuals for C/ANSI C and symbolic debugger.	\$205.

B2355A	HP-UX 8.07 Documentation. Documentation is available on CD-ROM or in hardcopy form. <i>NOTE: All options include material for both HP-UX 8.07 versions.</i>	
#0BC	Documentation on CD-ROM. Includes 1-user license-to-use.	\$835.
#0BJ	Hardcopy manuals which is not provided on CD-ROM option (#0BC)	\$158.
#UA2	4-user add-on for CD-ROM Documentation. Provides license-to-use for 4 additional users on CD-ROM documentation access software. Requires previous purchase of option #0BC.	\$415.
#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>	\$137.



DOCUMENTATION

PRODUCT NUMBER	DESCRIPTION	LCP
B2355A	HP-UX 8.07 Documentation. Documentation is available on CD-ROM or in hardcopy form. <i>NOTE: All options include material for both HP-UX 8.07 versions.</i>	
#0BE	HP-UX System Administration and Installation. Includes hardcopy administration and installation manuals for HP-UX, networking, and HP VUE.	\$685.
#0BF	General Programming. Includes hardcopy manuals for assembler, device I/O, native language support and general HP-UX programming techniques.	\$340.
#0BG	HP-UX User's Guides. Includes hardcopy manual for UUCP, mail, text formatting/processing, shells and editors.	\$184.
#0BL	User Environment. Includes hardcopy programming manuals for X Toolkit, Intrinsics, Xlib, HP VUE and OSF/Motif environment.	\$730.
#0BM	Starbase. Includes hardcopy programming manuals for Starbase, Starbase Display List, Radiosity, and Ray Tracing	\$1,025.
#0BT	C/ANSI C. Includes Hardcopy manuals for C/ANSI C and symbolic debugger.	\$205.

HP-UX 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 9.0 is required for all Series 700 workstations introduced after September 1, 1992 (715, 725, 735, 745, 747, and 755). HP-UX 9.0 is also supported on all Series 700 workstations introduced prior to July 1, 1992.

HP-UX 8.07 is supported only on Series 700 workstations introduced prior to July 1, 1992. (705, 710, 720, 730, and 750)

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.

Software for these products is also available on CD-ROM media B2826B or B2826A. Complete documentation is available in B2355A or B2355B

B2352A	HP-UX Run-Time Environment, 2 user. To order English HP-UX 2-User Run-Time preloaded on an HP Series 700 workstation, see product number B2910A, English HP-UX Instant Ignition.	
#AAH	Provides software on DDS (4mm DAT) tape. Requires option APH or APF When ordered in combination with option APF, a DDS tape with HP-UX 8.07 is included. When ordered in combination with option APH, a DDS tape with HP-UX 9.0 is included. Documentation included: Installing and updating HP-UX, Installing peripherals, HP VUE Users manual (HP VUE Users manual included with HP-UX 8.07 version only)	\$415.
#APH	HP-UX 9.0 Version. For CD media, see product number B2826B. For complete documentation, see product B2355B. HP-UX 9.0 is required for all Series 700 workstations introduced after September 1, 1992. HP-UX is supported on all Series 700 workstations.	N/C
#APF	HP-UX 8.07 version For CD Media, see product number B2826A. For complete documentation, see product number B2355A. HP-UX 8.07 is only supported on Series 700 workstations introduced before July 1, 1992.	N/C
#0CC	HP-UX 9.0 Revision Upgrade Requires previous purchase of HP-UX License upgrade for existing HP-UX customers no on Software Materials Update.	\$730.



HP-UX RUN-TIME ENVIRONMENT

PRODUCT NUMBER	DESCRIPTION	LCP
B2353A	HP-UX 8.07 Run-Time Environment, 8 user.	\$1,255.
#AAH	DDS Tape Media. When ordered in combination with APF, provides 8.07 DDS tape. When ordered in combination with APH, provides 9.0 DDS. Documentation included: Installing and updating HP-UX, Installing Peripherals, HP VUE Users manual (VUE Users manual included with 8.07 version only). For complete documentation, see product B2355A for 8.07 or B2355B for 9.0.	\$415.
#AAU	CD-ROM Certificate. When ordered in combination with APF, provides certificate to access 8.07 version on CD. When ordered in combination with APH, provides certificate to access 9.0 version on CD.	N/C
#APH	HP-UX 9.0 Version. For CD media, see product number B2826B. For complete documentation, see product B2355B.	N/C
#APF	HP-UX 8.07 Version. For CD media, see product number B2826A. For complete documentation, see product B2355A. HP-UX 8.07 is only supported on Series 700 workstation introduced before July 1, 1992.	N/C
#0D1	Factory Integrated. Preloads product with Instant Ignition. Requires options APH and AAU to be ordered simultaneously. Must be ordered with workstation hardware and Instant Ignition product. See B2910A, B2911A, or B2912A.	N/C

HP-UX LOCALIZED RUN-TIME ENVIRONMENT

HP-UX 9.0 and HP-UX 8.0/8.05/8.07 are available in localized versions for three Asia-Pacific countries and two European countries for the Series 700. Localized keyboard kits contain HP-UX 9.0 and HP-UX 8.0X learning products and are orderable using dependent options.

B2387A	Japanese HP-UX Run-Time Environment, 2 user. To order Japanese HP-UX 2-User Run-Time preloaded on an HP Series 700 workstation, see product number B2911A, Japanese Instant Ignition.	\$635.
#AAH	Provides software on DDS (4mm DAT) tape. When ordered in combination with option APF, provides HP-UX 8.07 DDS tape. When ordered in combination with option APH, provides HP-UX 9.0 DDS tape. Includes localized manuals. Refer to B2815A/B for complete administration and installation documentation.	\$415.
#AAU	CD ROM Certificate. When ordered in combination with option APF, provides certificate to access HP-UX 8.07 version on CD-ROM. When ordered in combination with option APH, provides certificate to access HP-UX 9.0 version on CD-ROM. Includes localized manuals. Refer to B2815A/B for complete system administration and installation documentation. Required to access software on CD-ROM media, B2826A/B.	N/C
#APH	HP-UX 9.0 Version	N/C
#APF	HP-UX 8.07 Version HP-UX 8.07 is only supported on Series 700 workstation introduced before July 1, 1992.	N/C
#0CC	HP-UX 9.0 License Upgrade License upgrade for existing HP-UX customers not on Software Materials Update.	\$730.

HP-UX LOCALIZED RUN-TIME ENVIRONMENT

PRODUCT NUMBER	DESCRIPTION	LCP
B2487A	Japanese HP-UX Run-Time Environment, 8 user	\$1,890.
#AAU	CD ROM Certificate. Requires option APH or APF When ordered in combination with option APF, provides certificate to access HP-UX 8.07 version on CD-ROM.. When ordered in combination with option APH, provides certificate to access HP-UX 9.0 version on CD-ROM. Includes localized manuals. Refer to B2815A/B for complete system administration and installation documentation. Required to access software on CD-ROM media, B2826A/B.	N/C
#AAH	Provides software on DDS (4mm DAT) tape. Requires option APH or APF When ordered in combination with option APF, provides HP-UX 8.07 DDS tape. When ordered in combination with option APH, provides HP-UX 9.0 DDS tape. Includes localized manuals. Refer to B2815A/B for complete administration and installation documentation.	\$415.
#APH	HP-UX 9.0 Version	N/C
#APF	HP-UX 8.07 Version HP-UX 8.07 is only supported on Series 700 workstation introduced before July 1, 1992.	N/C
B2815B	Japanese HP-UX 9.0 Documentation	N/C
#0BD	Hardcopy General Usage Documentation	\$168.
#0BE	Hardcopy System Administration Documentation	\$820.
B2815A	Japanese HP-UX 8.0X Documentation	N/C
#0BE	Hardcopy System Administration Documentation	\$820.
B2395A	Korean HP-UX Run-Time Environment, 2 user.	\$635.
#AAU	CD ROM Certificate. Requires option APH or APE When ordered in combination with option APF, provides certificate to access HP-UX 8.07 version on CD-ROM.. When ordered in combination with option APH, provides certificate to access HP-UX 9.0 version on CD-ROM. Includes localized manuals. Refer to B2815A/B for complete system administration and installation documentation. Required to access software on CD-ROM media, B2826A/B.	N/C
#AAH	Provides software on DDS (4mm DAT) tape. Requires option APH or APE When ordered in combination with option APF, provides HP-UX 8.07 DDS tape. When ordered in combination with option APH, provides HP-UX 9.0 DDS tape. Includes localized manuals. Refer to B2815A/B for complete administration and installation documentation.	\$415.
#APH	HP-UX 9.0 Version	N/C
#APE	HP-UX 8.05 Version HP-UX 8.05 is supported only on Series 720, 730 and 750 workstations. Series 705, 710 and workstations introduced after September 1, 1992, require HP-UX 8.07 or HP-UX 9.0.	N/C
#0CC	HP-UX 9.0 License Upgrade Requires previous purchase of B2395A License upgrade for existing HP-UX customers not on Software Materials Update.	\$735.



HP-UX LOCALIZED RUN-TIME ENVIRONMENT

PRODUCT NUMBER	DESCRIPTION	LCP
B2396A	German HP-UX Run-Time Environment, 2 user. To order German HP-UX 2-User Run-Time preloaded on an HP Series 700 workstation, see product number B2912A, German Instant Ignition.	
#AAU	CD ROM Certificate. When ordered in combination with option APF, provides certificate to access HP-UX 8.07 version on CD-ROM.. When ordered in combination with option APH, provides certificate to access HP-UX 9.0 version on CD-ROM. Includes localized manuals. Refer to B2815A/B for complete system administration and installation documentation. Required to access software on CD-ROM media, B2826A/B.	Requires option APH or APE \$105.
#AAH	Provides software on DDS (4mm DAT) tape. When ordered in combination with option APF, provides HP-UX 8.07 DDS tape. When ordered in combination with option APH, provides HP-UX 9.0 DDS tape. Includes localized manuals. Refer to B2815A/B for complete administration and installation documentation.	Requires option APH or APE \$415.
#APH	HP-UX 9.0 Version	N/C
#APE	HP-UX 8.05 Version HP-UX 8.05 is supported only on Series 720, 730 and 750 workstations. Series 705, 710 and workstations introduced after September 1, 1992, require HP-UX 8.07 or HP-UX 9.0.	N/C
#0CC	HP-UX 9.0 License Upgrade License upgrade for existing HP-UX customers not on Software Materials Update.	Requires previous purchase of B2396A \$730.
B2397A	French HP-UX Run-Time Environment, 2 user.	
#AAU	CD ROM Certificate. When ordered in combination with option APF, provides certificate to access HP-UX 8.07 version on CD-ROM.. When ordered in combination with option APH, provides certificate to access HP-UX 9.0 version on CD-ROM. Includes localized manuals. Refer to B2815A/B for complete system administration and installation documentation. Required to access software on CD-ROM media, B2826A/B.	Requires option APH or APE \$105.
#AAH	Provides software on DDS (4mm DAT) tape. When ordered in combination with option APF, provides HP-UX 8.07 DDS tape. When ordered in combination with option APH, provides HP-UX 9.0 DDS tape. Includes localized manuals. Refer to B2815A/B for complete administration and installation documentation.	Requires option APH or APE \$415.
#APH	HP-UX 9.0 Version	N/C
#APE	HP-UX 8.05 Version HP-UX 8.05 is supported only on Series 720, 730 and 750 workstations. Series 705, 710 and workstations introduced after September 1, 1992, require HP-UX 8.07 or HP-UX 9.0.	N/C
#0CC	HP-UX 9.0 License Upgrade License upgrade for existing HP-UX customers not on Software Materials Update.	Requires previous purchase of B2397A \$730.
B2816A	Traditional Chinese HP-UX Run-Time Environment, 2 user.	\$635.
#AAU	CD ROM Certificate. When ordered in combination with option APF, provides certificate to access HP-UX 8.07 version on CD-ROM.. When ordered in combination with option APH, provides certificate to access HP-UX 9.0 version on CD-ROM. Includes localized manuals. Refer to B2815A/B for complete system administration and installation documentation. Required to access software on CD-ROM media, B2826A/B.	Requires option APH or APE N/C
#AAH	Provides software on DDS (4mm DAT) tape. When ordered in combination with option APF, provides HP-UX 8.07 DDS tape. When ordered in combination with option APH, provides HP-UX 9.0 DDS tape. Includes localized manuals. Refer to B2815A/B for complete administration and installation documentation.	Requires option APH or APE \$415.
#APH	HP-UX 9.0 Version	N/C
#APE	HP-UX 8.05 Version HP-UX 8.05 is supported only on Series 720, 730 and 750 workstations. Series 705, 710 and workstations introduced after September 1, 1992, require HP-UX 8.07 or HP-UX 9.0.	N/C
#0CC	HP-UX 9.0 License Upgrade License upgrade for existing HP-UX customers not on Software Materials Update.	Requires previous purchase of B2816A \$730.
#0BG	Users Guides localized.	\$242.



HP-UX LOCALIZED RUN-TIME ENVIRONMENT

PRODUCT NUMBER	DESCRIPTION	LCP
B2213A	NLIO Simplified Chinese License-to-use Simplified Chinese NLIO on one Series 700 workstation.	\$635.
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manuals	\$110.

SOFTWARE DEVELOPMENT TOOLS

B2354A	HP-UX 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 B2826B or B2826A). For complete documentation, see B2355A/B.	\$1,885.
#AAH	DDS Tape Media. Requires option APH or APF When ordered in combination with APF, provides 8.07 DDS tape When ordered in combination with APH, provides 9.0 DDS.	\$205.
#AAU	CD-ROM Certificate. Requires option APH or APF When ordered in combination with option APF, provides certificate to access HP-UX 8.07 version on CD-ROM.. When ordered in combination with option APH, provides certificate to access HP-UX 9.0 version on CD-ROM. Required to access software on CD-ROM media, B2826A/B.	N/C
#APH	HP-UX 9.0 Version. For CD media, see product number B2826A. For complete documentation, see product B2355A.	N/C
#APF	HP-UX 8.07 Version. For CD media, see product number B2826B. For complete documentation, see product B2355B. HP-UX 8.07 is only supported on Series 700 workstation introduced before July 1, 1992.	N/C
#0D1	Factory Integrated. Preloads product with Instant Ignition. Requires options APH and AAU to be ordered simultaneously. Must be ordered with workstation hardware and Instant Ignition product. See B2910A, B2911A, or B2912A.	N/C
B2356A	HP-UX 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.	\$415.
#AAH	DDS Tape Media. Requires option APH or APF When ordered in combination with APF, provides 8.07 DDS tape When ordered in combination with APH, provides 9.0 DDS.	\$205.
#AAU	CD-ROM Certificate. Requires option APH or APF When ordered in combination with option APF, provides certificate to access HP-UX 8.07 version on CD-ROM.. When ordered in combination with option APH, provides certificate to access HP-UX 9.0 version on CD-ROM. Required to access software on CD-ROM media, B2826A/B.	N/C
#APH	HP-UX 9.0 Version. For CD media, see product number B2826B. For complete documentation, see product B2355B.	N/C
#APF	HP-UX 8.07 Version. For CD media, see product number B2826A. For complete documentation, see product B2355A. HP-UX 8.07 is only supported on Series 700 workstation introduced before July 1, 1992.	N/C
#0D1	Factory Integrated. Preloads product with Instant Ignition. Requires options APH and AAU to be ordered simultaneously. Must be ordered with workstation hardware and Instant Ignition product. See B2910A, B2911A, or B2912A.	N/C



SOFTWARE DEVELOPMENT TOOLS

PRODUCT NUMBER	DESCRIPTION	LCP
B2357A	HP-UX 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.	
#AAH	DDS Tape Media. Requires option APH or APF When ordered in combination with APF, provides 8.07 DDS tape. When ordered in combination with APH, provides 9.0 DDS.	\$205.
#APH	HP-UX 9.0 Version. For CD media, see product number B2826B. For complete documentation, see product B2355B.	N/C
#APF	HP-UX 8.07 Version. For CD media, see product number B2826A. For complete documentation, see product B2355A. HP-UX 8.07 is only supported on Series 700 workstation introduced before July 1, 1992.	N/C
#0D1	Factory Integrated. Preloads product with Instant Ignition. Requires options APH and AAU to be ordered simultaneously. Must be ordered with workstation hardware and Instant Ignition product. See B2910A, B2911A, or B2912A.	N/C
B1193A	UEDK (User Environment Developer's Kit) License-to-use UEDK on one Series 700 workstation. Supported on HP-UX 8.07 only.	\$205.
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media	N/C
#0BJ	Hardcopy manuals	\$790.
B2413A	C/ANSI C License-to-use C/ANSI C for one Series 700 workstation.	\$1,575.
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#APF	HP-UX 8.07 Revision	N/C
#APH	HP-UX 9.0 Revision	N/C
#0D1	Factory Integrated Requires options APH and AAU to be ordered simultaneously.	N/C
#0BJ	Hardcopy manuals	\$205.
B2402A	HP C++ 3.0 License-to-use HP C++ compiler for one user. Based on USL C++ 3.0 and includes exception handling, debug support and Standard Components Class library. <i>Media must be ordered separately (B2403A). Must order one of the following options:</i>	
#0AN	License-to-use HP C++ version 3.0 on one (1) seat.	\$1,785.
#0A9	License-to-use HP C++ version 3.0 on ten (10) seats.	14,300.
#0AG	License-to-use HP C++ version 3.0 on twenty-five (25) seats.	\$31,250.
#0AA	License-to-use HP C++ version 3.0 on fifty (50) seats.	\$53,500.
B2403A	HP C++ Media and Documentation Media and Manuals for HP C++ on Series 700. Supported on HP-UX version 8.07 or later. Order appropriate revision option. Requires prior or concurrent purchase of B2402A.	
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#APF	HP-UX 8.07 version	N/C
#APH	HP-UX 9.0 version	N/C
#0BJ	Hardcopy Manuals	\$205.



SOFTWARE DEVELOPMENT TOOLS

PRODUCT NUMBER	DESCRIPTION	LCP
B2406A	HP C++ Developer License to use HP C++ Browsing and Construction Tool for Series 700	\$2,625.
B2407A	HP C++ Developer media and manuals HP C++ Developer and manuals (B2406A) on Series 700.	\$210.
#AAH	Provides software on DDS (4mm DAT) tape.	N/C
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
B2408A	Fortran/9000 License-to-use for one Series 700 workstation.	\$1,890.
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#APF	HP-UX 8.07 version	N/C
#APH	HP-UX 9.0 version	N/C
#0D1	9.0 Factory Installation Requires options APH and AAU to be ordered simultaneously.	N/C
#0BJ	Hardcopy manuals	\$205.
B2414A	Pascal License-to-use for one Series 700 workstation	\$1,575.
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#APF	HP-UX 8.07 version	N/C
#APH	HP-UX 9.0 version	N/C
#0D1	9.0 Factory Installation Requires options APH and AAU to be ordered simultaneously.	N/C
#0BJ	Hardcopy manuals	\$205.
B2430A	COBOL/HP-UX Developer Package for HP9000 Series 700 See OP instructions for OS compatability. At time of print, pricing changes were under investigation. Please check CPL.	\$8,660.
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manual	\$205.
B2431A	COBOL/HP-UX Compiler for HP9000 Series 700 See OP instructions for OS compatability. At time of print, pricing changes were under investigation. Please check CPL.	\$5,200.
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manual	\$205.
B2432A	COBOL/HP-UX Run-Time System for HP9000 Series 700 See OP instructions for OS compatability. At time of print, pricing changes were under investigation. Please check CPL.	\$1,315.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.



SOFTWARE DEVELOPMENT TOOLS

PRODUCT NUMBER	DESCRIPTION	LCP
B3152A	HP Nihongo COBOL Developers Package Sold primarily in the Japanese marketplace	\$5,200.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#0BJ	Hardcopy Manuals	\$205.
B3153A	HP Nihongo COBOL Compiler Sold primarily in the Japanese marketplace	\$3,125.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#0BJ	Hardcopy Manuals	\$205.
B3154A	HP Nihongo COBOL Run-time System Sold primarily in the Japanese marketplace	\$735.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
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	Single User License	\$3,150.
#UA5	16 User License	\$5,250.
#UA7	32 User License	\$10,500.
#UA9	64 User License	\$17,850.
#UAT	Unlimited User License	\$26,250.
#UB0	Return Credit for Single User License	-\$3,000.
#UB5	Return Credit for 16 User License	-\$5,000.
#UB7	Return Credit for 32 User License	-\$10,000.
#UB9	Return Credit for 64 User License	-\$17,000.
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	Single User License	\$2,365.
#UA5	16 User License	\$3,940.
#UA7	32 User License	\$7,875.
#UA9	64 User License	\$13,400.
#UAT	Unlimited User License	\$19,700.
#UB0	Return Credit for Single User License	-\$2,250.
#UB5	Return Credit for 16 User License	-\$3,750.
#UB7	Return Credit for 32 User License	-\$7,500.
#UB9	Return Credit for 64 User License	-\$12,750.
#UCB	Client License	\$2,365.



SOFTWARE DEVELOPMENT TOOLS

PRODUCT NUMBER	DESCRIPTION	LCP
B2342A	ALLBASE/4GL Development Version	\$21,000.
#AAH	Provides software on DDS (4mm DAT) tape.	N/C
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#APF	HP-UX 8.07 version For use with ALLBASE/SQL E.1 or later and for use with HP-UX 8.0 or later.	N/C
B2343A	ALLBASE/4GL Runtime Version for Series 700.	\$5,200.
#AAH	Provides software on DDS (4mm DAT) tape.	N/C
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#APF	HP-UX 8.07 version For use with ALLBASE/SQL E.1 or later and for use with HP-UX 8.0 or later.	N/C
B2327A	ALLBASE/QUERY License-to-use for up to 16 users End-user interface to ALLBASE/SQL	\$3,570.
#AAH	Provides software on DDS (4mm DAT) tape.	N/C
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
B2327AB	Japanese ALLBASE/QUERY License-to-use for up to 16 users End-user interface to ALLBASE/SQL	\$3,925.
#AAH	Provides software on DDS (4mm DAT) tape.	N/C
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
B2600B	SoftBench 3.0 License-to-Use An integrated and distributed software development environment for C, Fortran and Pascal. Includes an extensible framework for integrating additional tools. Requires B2615B End-User Kit. Compilers must be ordered separately.	\$2,300.
B2615B	SoftBench 3.0 End-User Kit Customer must order one End-User Kit for each License-to-use.	N/C
#0B1	Add Manual Set	\$350.
#AAH	DDS Cartridge	\$200.
B2640B	SoftBench 3.0 Interactive Training License-to-Use Computer-Based Training (CBT) on the Softbench environment and usage. Requires B2643B Softbench Training End-User Kit.	\$550.
B2643B	SoftBench 3.0 Training End-User Kit Customer must order one End-User Kit for each License-to-use.	N/C
#AAH	DDS Cartridge	\$200.
B2600A	Japanese SoftBench 2.0 License-to-Use An integrated and distributed software development environment for C, Fortran and Pascal. Includes the A.02 version of the extensible framework for integrating additional tools. Requires B2615AJ End-User Kit. Compilers must be ordered separately.	\$2,415.



SOFTWARE DEVELOPMENT TOOLS

PRODUCT NUMBER	DESCRIPTION	LCP
B2615AJ	Japanese SoftBench 2.0 End-User Kit Customer must order one End-User Kit for each License-to-use.	N/C
#AAH	DDS Cartridge	\$315.
#0B1	Add Manual Set	\$475.
B2617B	C + + SoftBench 3.0 License-to-Use An integrated and distributed software development environment for C + + and C. Includes an extensible framework for integrating additional tools. Also includes HP C + + Language and HP C/ANSI C Developers Bundle. Requires B2620B End-User Kit.	\$7,995.
#097	Upgrade from SoftBench (B2600B)	-\$1,000.
#098	Return Credit for HP C + + Language (B2400A,02,04)	-\$1,700.
#099	Return Credit for HP C/ANSI C Dev Bundle (3/4/700)	-\$1,795
B2620B	C + + SoftBench 3.0 End-User Kit Customer must order one End-User Kit for each License-to-use.	N/C
#AAH	DDS Cartridge	\$200.
#0B1	Add Manual Set	\$550.
B2406B	C + + Developer 3.0 License-to-use A C + + class construction and browsing tool. This tool is included in C + + Softbench (B2617B)	\$2,500.
B2407B	C + + Developer Media and Manuals A C + + class construction and browsing tool. This tool is included in C + + Softbench (B2617B)	\$200.
#AAH	DDS Cartridge	N/C
B2645B	C + + SoftBench 3.0 Interactive Training License-to-Use Computer-Based Training (CBT) on the C + + Softbench environment and usage. Requires B2648B End-User Kit.	\$650.
B2648B	C + + SoftBench 3.0 Training End-User Kit Customer must order one End-User Kit for each License-to-use.	N/C
#AAH	DDS Cartridge	\$200.
B2600A	Japanese C + + SoftBench 2.0 License-to-Use A localized integrated and distributed software development environment for C + + and C, Fortran and Pascal. Includes the A.02 version of the extensible framework for integrating additional tools. Requires B2615AJ End-User Kit. Compilers must be ordered separately.	\$2,415.
B2620AJ	Japanese C + + SoftBench 2.0 End-User Kit Customer must order one End-User Kit for each License-to-use.	N/C
#AAH	DDS Cartridge	\$315.
#0B1	Add Manual Set	\$685.



SOFTWARE DEVELOPMENT TOOLS

PRODUCT NUMBER	DESCRIPTION	LCP
B2606B	Encapsulator 3.0 License-to-Use Allows users to add tools to the Softbench framework without source code changes. Also allows users to automate software development tasks and processes. Requires B2600B Softbench 3.0 License-to-use and B2616B Encapsulator End-User Kit.	\$5,250.
B2616B	Encapsulator 3.0 End-User Kit Customer must order one End-User Kit for each License-to-use.	N/C
#AAH	DDS Cartridge	\$210.
#0B1	Add Manual Set	\$370.
B2606A	Japanese Encapsulator 2.0 License-to-Use Allows users to add tools to the Softbench framework without source code changes. Also allows users to automate software development tasks and processes. Requires B2600A Japanese Softbench 2.0 License-to-use and B2616AJ Encapsulator End-User Kit.	\$5,250.
B2616AJ	Japanese Encapsulator 2.0 End-User Kit Customer must order one End-User Kit for each License-to-use.	N/C
B3260A	SynerVision/ChangeVision Bundle License-to-Use Includes both the SynerVision and ChangeVision products. Requires B3265A SynerVision/ChangeVision End-User Kit.	\$5,950.
B3265A	SynerVision/ChangeVision Bundle End-User Kit	N/C
#AAH	DDS Cartridge	\$200.
#0B1	Add Manual Set	\$300.
B3261A	SynerVision License-to-Use Enables users to construct computer-aided process-management environments to manage well defined sets of tasks. Requires B3269A SynerVision End-User Kit.	\$3,950.
B3269A	SynerVision End-User Kit Must order one End-User Kit for each License-to-use.	N/C
#AAH	DDS Cartridge Tape	\$200.
#0B1	Add Manual Set	\$150.
B3275A	SynerVision Interactive Training License-to-Use Requires B3278A Interactive Training End-User Kit Advanced Computer-Based Training (CBT) on the SynerVision product.	\$350.
B3278A	SynerVision Interactive Training Package End-User Kit Customer must order one End-User Kit for each License-to-use.	N/C
#AAH	DDS Cartridge Tape	\$200.
B3262A	ChangeVision License-to-Use Requires purchase of one B3261A and B3269A to run Includes a software change-request management environment for SynerVision that helps automate and manage the process of software defect change request.	\$2,950.



SOFTWARE DEVELOPMENT TOOLS

PRODUCT NUMBER	DESCRIPTION	LCP
B3273A	ChangeVision End-User Kit Customer must order one End-User Kit for each License-to-use.	N/C
#0B1	Add Manual Set	\$150.
#AAH	DDS Cartridge tape	\$200.
B2622A	InterViews Plus License-to-Use A C++ class library of reusable graphical interface components for developing OSF/Motif Interfaces. Requires B2626A End-User Kit.	\$5,200.
B2626A	InterViews Plus End-User Kit Customer must order one End-User Kit for each License-to-use.	N/C
#0B1	Add Manual Set	\$315.
#AAH	DDS Cartridge Tape	\$210.
#AAU	CD-ROM Certificate	N/C
B1183A	Interface Architect 2.0 License-to-Use An easy-to-use GUI builder for OSF/Motif interfaces. Automates generation of C code and transparently links the process of building, editing, and navigating interfaces. Requires B1186A End-User Kit.	\$5,250.
B1186A	Interface Architect 2.0 End-User Kit Must order one End-User Kit for each License-to-use.	N/C
#0B1	Add Manual Set	\$158.
#AAH	DDS Cartridge Tape	\$210.
B1189A	Interface Architect 2.0 Library Source Code	\$2,415.
#AAH	DDS Cartridge Tape	\$210.
B1486A	HP Branch Validator for HP-UX C/C++ License-to-Use	
#AAY	HP Branch Validator Media and Documentation	\$645.
#UBY	Single User License-to-Use (Price per seat) Quantity discount automatically given, no option necessary	\$2,625.
	Quantity 2 - 4	\$2,100.
	Quantity 5 - 9	\$1,575.
	Quantity 10 - 14	\$1,050.
	Quantity 15 +	\$790.
B1487A	HP Branch Validator Media and Documentation Must order one End-User Kit for each license being transferred.	
B2633A	Transfer License Administration Fee For SoftBench, Encapsulator, or C++ SoftBench	\$53.



DISTRIBUTED COMPUTING TOOLS

PRODUCT NUMBER	DESCRIPTION	LCP
Task Broker		
Task Broker is a software product that provides efficient access to computers across a network. Media and documentation must be ordered separately. Licenses are restricted to a local area network.		
B1740L	Task Broker License-to-use - up to 10 workstations/systems	\$5,250.
B1741L	Task Broker License-to-use - up to 50 workstations/systems	\$15,750.
B1742L	Task Broker Site License-to-use	\$31,500.
B1732A	Media and Documentation for Task Broker Software. Requires prior or concurrent purchase of B1740/1/2L. Must specify media option.	\$315.
#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
B2144A	LSLOCK HP Binary for Series 700.	\$5,050.
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.	\$205.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#APF	HP-UX 8.07 version	N/C
#APH	HP-UX 9.0 version	N/C
#0BJ	Hardcopy manuals	\$49.
B2674A	NCS/NIDL for Series 700.	\$1,315.
License-to-use NIDL compiler on one Series 700 workstation.		
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#APF	HP-UX 8.07 version	N/C
#APH	HP-UX 9.0 version	N/C
#0BJ	Hardcopy manuals	\$158.
B2920A	DCE Core Services, media and documentation - USA only version	\$1,500.
Requires purchase of one B2924A - DCE CDS Server license and one B2925A - DCE Security Server license to run. Also requires one B2923A - DCE Client license for EACH system in the DCE cell to run.		
#AAH	DDS (4mm DAT) media	\$195.
#AAU	CD-ROM certificate	N/C
#APH	HP-UX 9.0 version	N/C
B2921A	DCE Core Services, media and documentation - International version	\$1,500.
Requires purchase of one B2924A - DCE CDS Server license and one B2925A - DCE Security Server license to run. Also requires one B2923A - DCE Client license for EACH system in the DCE cell to run.		
#AAH	DDS (4mm DAT) media	\$195.
#AAU	CD-ROM certificate	N/C
#APH	HP-UX 9.0 version	N/C



DISTRIBUTED COMPUTING TOOLS

PRODUCT NUMBER	DESCRIPTION	LCP
B2923A	DCE Client License	\$395.
B2924A	DCE CDS Server License	\$3,100.
B2925A	DCE Security Server License	\$3,100.
B2922A	DCE Application Development Tools – media and documentation Requires purchase of B2926A	\$2,000.
#AAH	Provides software on DDS (4mm DAT) media	\$195.
#AAU	CD-ROM certificate. Required to access software on CD media	N/C
#APH	HP-UX 9.0 Version	N/C
B2926A	DCE Application Development Tools license	\$795.
B2927A	HP DCE hardcopy documentation Available in hardcopy only	\$795.

SYSTEM & NETWORK MANAGEMENT

PERFORMANCE MANAGEMENT

B1807A	HP GlancePlus/UX for Series 700 on-line performance monitoring software. 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.	\$600.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#APE	HP-UX 8.05 version	N/C
#APF	HP-UX 8.07 version	N/C
#APH	HP-UX 9.0 version	N/C
#0BE	User manual	\$100.
B1806A	HP LaserRX/UX Collector for Series 700 License-to-use HP LaserRX/UX on a single Series 700 workstation.	\$1,200.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#APE	HP-UX 8.05 version	N/C
#APF	HP-UX 8.07 version	N/C
#APH	HP-UX 9.0 version	N/C
#0BE	User manual	\$100.



SYSTEM & NETWORK MANAGEMENT

PRODUCT NUMBER	DESCRIPTION	LCP
B3168A	HP GlancePlus Pak/UX License-to-use HP GlancePlus Pak/UX on a single Series 700 workstation. Contains HP GlancePlus/UX (B1807A) and HP Performance Collection Software (B1806A) in one product.	\$1,600.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#APE	HP-UX 8.05 version	N/C
#APF	HP-UX 8.07 version	N/C
#APH	HP-UX 9.0 version	N/C
#0BE	User manual	\$100.
#101	Return Credit for HP GlancePlus/UX (B1807A)	-\$500.
#102	Return Credit for HP Performance Collection Software (B1806A)	-\$1,100.
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.	
#UAU	License-to-use	\$26,000.
#AAH	Provides software on DDS (4mm DAT) 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.

STORAGE MANAGEMENT

B1942A	HP OmniBack Base License for Series 300/400/700/800 and Apollo DN 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>	\$5,300.
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 workstations)	\$158.
	(25-99 workstation)	\$142.
	(100 plus)	\$116.



SYSTEM & NETWORK MANAGEMENT

PRODUCT NUMBER	DESCRIPTION	LCP
STORAGE MANAGEMENT		
B1945A	HP OmniBack for HP 9000 Series 700 workstations Must specify media option and language option; Must be ordered together with node licenses.	\$265.
#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.
B1945B	HP OmniBack for HP 9000 Series 700; HP-UX 9.0 Must specify media option and language option; Must be ordered together with node licenses.	\$265.
#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; HP-UX 8.05 or HP-UX 8.07 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	\$10,500.
#AGZ	License-to-use for 3 months Evaluation copy	\$53.
#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
B1929B	HP OmniBack/Turbo for HP 9000 Series 700; HP-UX 9.0 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	\$10,500.
#AGZ	License-to-use for 3 months Evaluation copy	\$53.
#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



SYSTEM & NETWORK MANAGEMENT

PRODUCT NUMBER	DESCRIPTION	LCP
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PRINT MANAGEMENT

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). First time orders must always specify required licenses, media and documentation (language). Also, see supplementary SharedPrint/UX in "Collaborative Multimedia Products" section. Must specify media, language and license options.

#UA0	License to use for 1 workstation	\$265.
#UBN	Unlimited license to use for 1 site	\$78,750.
#0AZ	Single country/company license:	\$315,000.
#222	License to use supplementary filters for one output device, with graphical user interface (OpenSpool SharedPrint) First time order requires HP OpenSpool user license above, media/documentation B1907B or B1909B and B1917B.	\$625.

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.	\$158.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#ABA	U.S. English	\$158.
#ABD	German	\$158.
#ABE	Spanish	\$158.
#ABJ	Japanese	\$158.
#AGZ	License-to-use for 3 months — Evaluation copy (Requires media and language options)	-\$150.

B1917B HP OpenSpool Supplementary set of filters (SharedPrint)

Media and documentation for Series 700. Requires ordering of B1900B, Option #222. First time order requires HP OpenSpool user license shown above, and media/documentation B1907B or B1909B.

#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#AAH	Provides software on DDS (4mm DAT) tape.	\$158.
#ABA	Documentation in U.S. English	\$158.

NETWORK MANAGEMENT

J2317A HP OpenView Network Node Manager

HP OpenView Network Node Manager increases the availability of your LAN(s) by providing easy-to-use fault, configuration and performance management for multivendor TCP/IP networks.

#004	Provides software on DDS (4mm DAT) tape.	\$126.
#005	CD-ROM media and documentation	\$126.
#008	License to use on a single system	\$15,750.
#013	Return Credit for previously purchased SNMP or DM Mgmt platform	-\$7,000.
#014	Upgrade Credit for previous version	-\$10,000.
#015	Additional hardcopy manuals	\$84.



SYSTEM & NETWORK MANAGEMENT

PRODUCT NUMBER	DESCRIPTION	LCP
NETWORK MANAGEMENT		
B1040A	HP OpenView Enterprise Management Station	\$40,950.
	HP OpenView Enterprise Management Station includes HP 9000 Series 720 workstation with 19" color monitor, 1280X1024 high resolution color graphics, 32MB Memory, internal 420MB Disk Storage, external CD-ROM drive with SCSI cable and terminator. HP VUE and Instant Ignition pre-loaded and pre-configured, HP OpenView TCP/IP agent, HP OpenView Network Node Manager pre-loaded and ready to use.	
#1FH	AT-style American language keyboard	N/C
#1FJ	HP-style American language keyboard	N/C
J2314A	HP OpenView SNMP Platform	
	The SNMP Platform is the integration and execution environment for applications written using the SNMP Developer's Kit.	
#001	Provides software on 1/4-inch cartridge tape	\$265.
#004	Provides software on DDS (4mm DAT) tape.	\$265.
#005	CD-ROM media and documentation	\$265.
#008	License to use on a single system	\$7,350.
#015	Additional hardcopy manuals	\$236.
#021	Ingres DB 1/4" Tape and Manuals	\$265.
#024	Ingres DB DAT and Manuals	\$265.
#025	Ingres DB CD-ROM and Manuals	\$265.
#028	Ingres DB Single User License	\$5,250.
#039	Additional Ingres DB Manual Set	\$236.
J2311A	HP OpenView SNMP Developer's Kit	
	The SNMP Developer's Kit is the development environment for those creating applications to manage SNMP/TCP/IP devices and/or networks.	
#001	Provides software on 1/4-inch cartridge tape	\$315.
#004	Provides software on DDS (4mm DAT) tape.	\$315.
#005	CD-ROM media and documentation	\$315.
#008	License to use on a single system	\$13,125.
#009	Five (5) User License	\$52,500.
#010	Ten (10) User License	\$84,000.
#011	Twenty (20) User License	\$126,000.
#013	Credit for upgrade from HP OpenView SNMP Developer's Kit	-\$7,000.
#015	Additional Manuals	\$290.
#021	Ingres DB 1/4" Tape and Manuals	\$265.
#024	Ingres DB DAT and Manuals	\$265.
#025	Ingres DB CD-ROM and Manuals	\$265.
#028	Ingres DB Single User License	\$5,250.
#029	Ingres DB Five (5) User License	\$21,000.
#030	Ingres DB Ten (10) User License	\$36,750.
#031	Ingres DB Twenty (20) User License	\$63,000.
#039	Additional Ingres DB Manual Set	\$236.



SYSTEM & NETWORK MANAGEMENT

PRODUCT NUMBER	DESCRIPTION	LCP
J2343A	HP OpenView Interconnect Lite	\$10,500.
	HP OpenView Interconnect Lite provides multivendor monitoring of large IP-based workgroups.	
#AA0	Provides software on 1/4-inch cartridge tape and documentation	N/C
#AAH	Provides software on DDS (4mm DAT) tape and documentation	N/C
27361B	HP OpenView Interconnect Manager	\$21,000.
	The HP OpenView Interconnect Manager provides multivendor monitoring and control of global IP-based networks established on OSF/DME technologies.	
#AA0	Provides software on 1/4-inch cartridge tape and documentation	N/C
#AAH	Provides software on DDS (4mm DAT) tape and documentation	N/C
J2320A	HP OpenView Distributed Management Developer's Kit	
	The DM Developer's Kit is the development environment to create applications to manage networks using heterogeneous management protocols and/or heterogeneous communications stacks.	
#001	Provides software on 1/4-inch cartridge tape	\$370.
#002	QIC and Manuals	\$370.
#003	1/2" Tape and Manuals	\$370.
#004	Provides software on DDS (4mm DAT) tape.	\$370.
#005	CD-ROM media and documentation	\$370.
#008	Single User License	\$24,150.
#009	Five (5) User License	\$96,600.
#010	Ten (10) User License	\$157,500.
#011	Twenty (20) User License	\$288,750.
#012	Credit for current HP OpenView Network Node Manager	-\$7,000.
#013	Credit for upgrade from HP OpenView SNMP Developer's Kit	-\$7,500.
#014	Credit for upgrade from HP OpenView NMS Developer's Kit	-\$13,000.
#019	Additional DM Developer's Kit Manuals	\$340.
#021	Ingres DB 1/4" Tape and Manuals	\$265.
#022	Ingres DB QIC and Manuals	\$265.
#023	Ingres DB 1/2" Tape and Manuals	\$265.
#024	Ingres DB DAT and Manuals	\$265.
#025	Ingres DB CD-ROM and Manuals	\$265.
#028	Ingres DB Single User License	\$5,250.
#029	Ingres DB Five (5) User License	\$21,000.
#030	Ingres DB Ten (10) User License	\$36,750.
#031	Ingres DB Twenty (20) User License	\$63,000.
#039	Additional Ingres DB Manual Set	\$236.



SYSTEM & NETWORK MANAGEMENT

PRODUCT NUMBER	DESCRIPTION	LCP
J2323A	HP OpenView Distributed Management Platform The DM Platform is the integration and execution environment for applications written using the DM Developer's Kit.	
#001	Provides software on 1/4-inch artridge tape	\$265.
#002	QIC and Manuals	\$265.
#003	1/2" Tape and Manuals	\$265.
#004	Provides software on DDS (4mm DAT) tape.	\$265.
#005	CD-ROM media and documentation	\$265.
#008	Single User License	\$8,400.
#012	Credit for current HP OpenView Network Node Manager	-\$7,000.
#013	Credit for upgrade from HP OpenView SNMP Developer's Kit	-\$7,000.
#019	Additional DM Developer's Kit Manuals	\$236.
#021	Ingres DB 1/4" Tape and Manuals	\$265.
#022	Ingres DB QIC and Manuals	\$265.
#023	Ingres DB 1/2" Tape and Manuals	\$265.
#024	Ingres DB DAT and Manuals	\$265.
#025	Ingres DB CD-ROM and Manuals	\$265.
#028	Ingres DB Single User License	\$5,250.
#039	Additional Ingres DB Manual Set	\$236.

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	\$105.
#AAH	Provides software on DDS (4mm DAT) tape.	\$105.
#0B1	Manual only	\$26.
#UA0	License for use on a single system	\$1,050.
#0A9	License for use on 10 systems	\$8,400.
#UAE	License for use on 100 systems	\$63,000.
#UAG	License for use on 1000 systems	\$315,000.
#UE4	Upgrade from single system license	-\$1,000.
#UE5	Upgrade from 10 system license	-\$8,000.
#UE6	Upgrade from 100 system license	\$60,000.

NETWORKING and COMMUNICATIONS

SNA Connectivity Products

The products listed in this section provide connectivity between Model 9000 Series 700 workstations and IBM hosts. For more detail about functionality and configuration requirements, please reference the "HP Networking Communications Specification Guide", LDC 5091-3821E.

J2226A	SNApplusLink	\$1,785.
	EISA card, RS-232C cable for SNApplusLink (must order option #AHN)	
#AHN	RTU license for S700 software.	\$1,785.
#AAH	Provides software on DDS (4mm DAT) tape.	N/C
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BD	Hardcopy manual	N/C



NETWORKING and COMMUNICATIONS

PRODUCT NUMBER	DESCRIPTION	LCP
SNA Connectivity Products		
J2227A	SNAPplus3270 Enables an HP9000 S/700 to access an IBM mainframe by emulating an IBM 3278 display.	\$1,165.
#AAH	Provides software on DDS (4mm DAT) tape.	N/C
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BD	Hardcopy manual	N/C
J2229A	SNAPplusAPI Enables an HP9000 S/700 to carry on program-to-program communications in an IBM environment.	\$1,575.
#AAH	Provides software on DDS (4mm DAT) tape.	N/C
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BD	Hardcopy manual	N/C
WIDE AREA LINKS		
The products described in this section provide local area network connectivity for Model 9000 Series 700 workstations. Please see the individual product data sheets for each model for more detail about functionality and requirements. The data sheets are part of the "HP Networking Communications Specification Guide", LDC 5091-3821E		
J2165A	HP Token Ring/9000 802.5 (IBM) Token Ring support for HP Apollo 9000 Series 700. Provides the necessary hard ware and software to interface between an HP 9000 Series 700 workstation and an HP Token Ring Local Area Network.	\$1,675.
#UJ9	Provides software on DDS (4mm DAT) tape.	N/C
J2156A	FDDI/9000 Software and FDDI single attach station adapter for Series 700 Workstations. Provide the EISA-bus Series 700 workstations with a Single Attach Station (SAS) connection to the ISO standard FDDI network. Includes single EISA board and driver software.	\$4,720.
#1AW	Delete Software FDDI single attach station adapter only.	-\$995.
25567A	LAN/9000 Add-on EISA LAN card for Series 700 Workstations (software included with HP-UX) to connect Series 700 workstations to an 802.3 network..	\$1,465.
#740	LAN/9000 ThickLAN connection Replaces ThinLAN connection with ThickLAN. Includes ThickLAN transceiver, tap, and 6-meter PVC AUI cable.	\$415.
#840	LAN/9000 EtherTwist connection Replaces ThinLAN connection with an EtherTwist connection, including an EtherTwist Pocket Transceiver. (Note: only one of the above options may be ordered with each 25567A.)	\$205.
A2544A	Apollo Token Ring (ATR) for 730 and 750 workstations Includes controller card and HP-UX driver (DAT cartridge only)	\$1,435.
#APB	HP-UX version 8.0	N/C
#APH	HP-UX version 9.0	N/C



NETWORKING and COMMUNICATIONS

PRODUCT NUMBER	DESCRIPTION	LCP
WIDE AREA LINKS		
A2545A	Apollo Token Ring (ATR) with EISA slot for 720 workstations Includes controller card, add-on EISA slot and HP-UX driver (DAT cartridge only)	\$2,095
#APB	HP-UX version 8.0	N/C
#APH	HP-UX version 9.0	N/C
J2140A	NS/9000 Network Services Software provides Network File Transfer (NFT) and Virtual Terminal capabilities over 802.3 local area networks. Requires either the LAN/9000 or X.25 Link product.	\$735.
#UJB	CD-ROM Certificate for HP-UX 9.0 release	N/C
#UJC	Software on DDS cartridge for HP-UX 9.0 release	\$105.
#UJ8	CD-ROM Certificate for HP-UX 8.07 release	N/C
#UJ9	Software on DDS cartridge for HP-UX 8.07 release	\$105.
J2159A	X.25/9000 Link Product Card and software for use on S/700 workstations with EISA backplane to provide X.25 Connectivity to public and private nets.	\$4,410.
#1AT	RS-232 Interface Cable RS-232 cable for use with J2159A up to 19.2 kbps.	N/C
#1AU	V.35 Interface Cable V.35 cable for use with J2159A up to 64 kbps. (Note: only one of the above options may be ordered with each 25567A.)	N/C
#1AW	Delete software	-\$1,200
ISDN PRODUCTS		
J2101A	HP ISDN Server Server providing IP routing between LAN and ISDN networks. Includes 1 LAN card And 1 ISDN Basic Rate Interface Card.	\$19,300.
#0E2	110v operation	N/C
#0E3	240v operation	N/C
#1BF	ThinLAN attachment	N/C
#1BJ	ThickLAN attachment	\$525.
#100	HP ISDN Link/Server	\$6,490.
J2104A	HP ISDN Link/S700 Hardware and software to connect HP Series 700 workstations to ISDN networks. Plug-in EISA ISDN Basic Rate Interface including card, user manual and cable. Provides TCP/IP connectivity to ISDN for a single S700 workstation. Note: can only be used with S700 models supporting EISA.	\$3,030.
#099	TCP/IP to ISDN router/gateway software	\$1,375.
#AAH	Software on DDS cartridge	N/C
#AAU	CD-ROM Certificate. Required to access software on CD-ROM	N/C
#0B0	Delete Manual Set	-\$50.



NETWORKING and COMMUNICATIONS

PRODUCT NUMBER	DESCRIPTION	LCP
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OPEN SYSTEMS INTEGRATION (OSI) PRODUCTS

The products described in this section provide International Standards Organization (ISO) Open Systems Integration (OSI) functionality for Model 9000 Series 700 workstations. Please see the individual product data sheets for each model for more detail about functionality and requirements. The data sheets are part of the "HP Networking Communications Specification Guide", LDC 5091-3821E

J2160A HP OTS/9000 \$2,625.

Software and documentation providing Transport, Session, Presentation, and ACSE layers of the OSI reference model on the HP 9000 Series 700 workstations.

#UJ9	Provides software on DDS (4mm DAT) tape.	N/C
#APB	HP-UX version 8.0	N/C
#APH	HP-UX version 9.0	N/C
#0B0	Delete Manual Set	-\$49.

J2161A HP MMS/9000 \$2,100.

OSI layer seven service for the Model 9000 Series 700 providing Manufacturing Message Specification (MMS) support in the Manufacturing Automation Protocol (MAP) 3.0 environment. Requires HP-UX 8.07 or higher.

#UJ9	Provides software on DDS (4mm DAT) tape.	N/C
#0B0	Delete Manual Set	-\$50.

J2162A HP X.400/9000 \$3,675.

CCITT 1988 standard electronic messaging for Model 9000 Series 700 workstations. Requires HP-UX 8.07 or higher.

#UJ9	Provides software on DDS (4mm DAT) tape.	N/C
#APF	HP-UX version 8.07	N/C
#APH	HP-UX version 9.0	N/C
#0B0	Delete Manual Set	-\$50.

J2163A HP FTAM/9000 \$1,260.

OSI software product providing services for file transfer, access and management in OSI networks.

#UJ9	Provides software on DDS (4mm DAT) tape. (Note: J2163A requires HP-UX 8.07 or higher.)	N/C
#APF	HP-UX version 8.07	N/C
#APH	HP-UX version 9.0	N/C
#0B0	Delete Manual Set	-\$50.

PC INTEROPERABILITY

B2382A SoftPC 3.0 License-to-use \$700.

License-to-use SoftPC 3.0 for Series 700 workstation.

#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM B2826A (HP-UX 8.07) CD-ROM media	
#0BJ	Hardcopy manuals	\$150.



PC INTEROPERABILITY

PRODUCT NUMBER	DESCRIPTION	LCP
J2239A	NetWare 3.11	
	NetWare for UNIX on the Series 700 is a fully compatible NetWare server product which provides transparent integration of DOS, OS/2, Windows and UNIX(NFS) desktop systems.	
#AAH	Provides software on DDS (4mm DAT) tape.	N/C
#UA2	4 clients supported	\$2,725.
#UA3	8 clients supported	\$4,750.
#UA5	16 clients supported	\$6,725.
#UA7	32 clients supported	\$8,950.
#UA9	64 clients supported	\$11,400.
#UB2	Credit for 4 User License	-\$2,725.
#UB3	Credit for 8 User License	-\$4,750.
#UB5	Credit for 16 User License	-\$6,725.
#UB7	Credit for 32 User License	-\$8,950.
B1011C	HP LAN Manager/X	
	LAN Manager/X on the Series 700 is a powerful networking product that provides transparent integration of MS-DOS and OS/2 PCs with UNIX systems.	
#AAH	DDS Tape and Manuals	\$105.
#OB1	Additional User's Manuals	\$105.
#UA3	8 client license	\$2,310.
#UA5	16 client license	\$3,760.
#UA7	32 client license	\$5,930.
#UA9	64 client license	\$9,560.
#UAB	128 client license	\$14,400.
#UAD	256 client license	\$24,050.
#UCQ	512 client license	\$36,100.
#UCR	1,024 client license	\$54,250.
#UB3	Credit for 8 client license	-\$1,760.
#UB5	Credit for 16 client license	-\$2,864.
#UB7	Credit for 32 client license	-\$4,520.
#UB9	Credit for 64 client license	-\$7,280.
#UBA	Credit for 128 client license	-\$10,960.
#UBV	Credit for 256 client license	-\$18,320.
#UCP	Credit for 512 client license	-\$27,520.
#021	Upgrade B1011B to B1011C 8 client	\$525.
#022	Upgrade B1011B to B1011C 16 client	\$840.
#023	Upgrade B1011B to B1011C 32 client	\$1,315.
#024	Upgrade B1011B to B1011C 64 client	\$2,100.
#025	Upgrade B1011B to B1011C 128 client	\$3,150.
#026	Upgrade B1011B to B1011C 256 client	\$5,250.
#027	Upgrade B1011B to B1011C 512 client	\$7,880.
#028	Upgrade B1011B to B1011C 1,024 client	\$10,500.



GRAPHICS

PRODUCT NUMBER	DESCRIPTION	LCP
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 8.07. Supports PersonalVRX, TurboVRX and CRX.	\$3,570.
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manual	\$370.
B2364C	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 8.07 & 9.0. Supports PersonalVRX, TurboVRX and CRX.	\$525.
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
B2363D	HP PHIGS 2.3 Development Environment License-to-use HP-PHIGS 2.3 development libraries for one Series 700 workstation. For use with HP-UX version 9.0. Supports all Series 700 graphics subsystems. This product includes the B2364D HP-PHIGS Run-Time Libraries.	\$3,570.
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manual	\$370.
B2364D	HP PHIGS 2.3 Run-Time Libraries License-to-use HP-PHIGS 2.3 runtime libraries for one Series 700 workstation. For use with HP-UX version 9.0. Supports all Series 700 graphics subsystems.	\$525.
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#APH	Software for HP-UX release 9.0, Series 700	
B3176A	HP PEX 5.1 3D Development Environment (available after 1/1/93) License-to-use HP-PEX client-server development libraries for one Series 700 workstation. For use with HP-UX version 9.0. Supports the CRX-48Z and CRX-24Z. Supports the Series 700 Color, CRX and CRX-24 ONLY when HP PowerShade is present. Order the APH option and the equivalent number of media options (AAH or AAU). This product includes the B3177A HP-PEX 5.1 Run-Time libraries and reference documentation.	\$3,400.
#APH	Software for HP-UX release 9.0, Series 700	N/C
#AAH	Provides software on DDS (4mm) media	\$195.
#AAU	CD-ROM certificate	N/C
#0D1	Pre-loaded via Instant Ignition	N/C



GRAPHICS

PRODUCT NUMBER	DESCRIPTION	LCP
B3177A	HP PEX 5.1 Run-Time Libraries (available after 1/1/93) License-to-use HP-UX client-server runtime libraries for one Series 700 workstation. For use with HP-UX version 9.0. Supports the CRX-48Z and CRX-24Z. Supports the Series 700 Color, CRX and CRX-24 ONLY when HP PowerShade is present. Order the APH option and the same number of media options (either AAH or AAU).	\$245.
#APH	Software for HP-UX release 9.0, Series 700	N/C
#AAH	Provides software on DDS (4mm) media	\$195.
#AAU	CD-ROM certificate	N/C
#0D1	Pre-loaded via Instant Ignition	N/C
B2156B	PowerShade for HP-UX 8.07 & 9.0 3D surfaces rendering software for one Series 700 workstation	\$2,100.
#AAH	Provide software on DDS (4mm DAT) tape	\$205.
#AAU	CD-ROM Certificate	N/C
B2930A	HP ARTCore Development Environment License-to use HP-UX client-server development libraries for one Series 700 workstation. For use with HP-UX version 8.07 and 9.0.	\$4,200.
#AAH	Software on DDS (4mm) media	\$205.
#AAU	CD-ROM certificate	N/C
#0BJ	Hardcopy manual	\$370.
B2931A	HP ARTCore Run-Time Libraries License-to use HP-UX client-server runtime libraries for one Series 700 workstation. For use with HP-UX version 8.07 and 9.0.	\$1,050.
#AAH	Software on DDS (4mm) media	\$205.
#AAU	CD-ROM certificate	N/C

COLLABORATIVE MULTI MEDIA TOOLS

IMAGE DEVELOPER TOOLKIT

B2157A	Image Developer Toolkit for HP Series 700 workstation Includes license-to-use for one workstation and development tools for TIFF 5.0 raster/bitmap images	\$1,045.
#APH	HP-UX version 9.0	N/C
#APF	HP-UX version 8.07	N/C
#AAH	Software on DDS (4mm) media	\$205.
#AAU	CD-ROM certificate	N/C



COLLABORATIVE MULTI MEDIA TOOLS

PRODUCT NUMBER	DESCRIPTION	LCP
SHARED X 2.0		
B2305L	License to use HP SharedX v. 2.0	N/C
#UA0	Single node license	\$520.
#UA3	8 node license	\$3,465.
#UA6	24 node license	\$9,450.
#UA8	48 node license	\$15,750.
#UAA	96 node license	\$26,250.
#UB0	Upgrade LTU from 1.x to 2.x	\$53.
B2307A	HP SharedX Media/Manuals for S700 and HP 700/RX with S700 host	N/C
#APE	S/W for HP-UX 8.05	N/C
#APF	S/W for HP-UX 8.07	N/C
#APH	S/W for HP-UX 9.0	N/C
#AAU	CD-ROM certificate and Installation Guide	N/C
#AAH	DDS Cartridge and Installation Guide	\$205.
#0BJ	HP SharedX Users Guide	\$158.
SHAREDPRINT/UX (See OpenSpool under Print Management section of Network & System Management)		
B2154A	SharedPrint/UX v 1.0 for HP/Apollo Series 700 Note: Runs on HP-UX 8.07 and HP-UX 9.0 or later.	N/C
#006	License-to-use per hardcopy device	\$625.
#APF	S/W for HP-UX 8.07	N/C
#APH	S/W for HP-UX 9.0	N/C
#AAH	Provides software on DDS (4mm) media	\$205.
#AAU	CD-ROM certificate	N/C
#0BJ	Administrator's hardcopy manual	\$105.
FAX		
B2818A	HP FAX 1.0 (Computer based client/server fax software product - see data sheet for details)	N/C
#UAU	License-to-use HP FAX-UX Includes 1 server node-locked LTU and 5 client floating LTU's, documentation, and PostScript converter.	\$1,250.
#AAH	Provides software on DDS (4mm) media	\$205.
#AAU	CD-ROM certificate	N/C
#UAO	Additional client floating license to use	\$310.
#1CW	Additional Modem Line	\$310.



COLLABORATIVE MULTI MEDIA TOOLS

PRODUCT NUMBER	DESCRIPTION	LCP
SCANNER		
C1788A	HP ScanJet IIc Scanner and Interface Kit for HP/Apollo Series 700 workstations (includes Scanner, DeskScan/UX software media and hardcopy manual, SCSI cable and terminator)	\$3,350.
#AAH	Provides software on DDS (4mm) media	N/C
#AAU	CD-ROM certificate	N/C
A2229A	HP ScanJet IIc Interface Kit for HP/Apollo Series 700 workstations (includes DeskScan/UX software media and hardcopy manual, SCSI cable and terminator)	\$1,465.
#AAH	Provides software on DDS (4mm) media	N/C
#AAU	CD-ROM certificate	N/C
C1751A	HP ScanJet IIc Automatic Document Feeder	\$730.
MIGRATION TOOLS		
B2895A	DMX. License to use DMX for one Series 700 workstation.	\$104.
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manuals	\$104.
B2898A	HP ADVISE. License-to-use HP ADVISE on one Series 700 workstation.	\$100.
#AAH	Provides software on DDS (4mm DAT) tape.	\$195.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#APF	HP-UX 8.07 Release	N/C
#APH	HP-UX 9.0 Release	N/C
#0BJ	Hardcopy manuals	\$100.
B2681A	Passwd/Etc Requires Domain system running SR10 or later as Registry Server	\$235.
#AAH	Provides software on DDS (4mm DAT) tape.	\$205.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#APF	HP-UX 8.07 Release	N/C
#APH	HP-UX 9.0 Release	N/C



MISCELLANEOUS

PRODUCT NUMBER	DESCRIPTION	LCP
B1504A	HP Visual Editor 2.1 License-to-use Visual Editor 2.1 for HP-UX 8.07 and later.	\$168.
#AAH	Provides software on DDS (4mm DAT) tape.	\$200.
#AAU	CD-ROM certificate. Required to access software on CD-ROM media.	N/C
#0BJ	Hardcopy manuals	\$26.
E2101B	HP VEE-Engine License-to-use for HP's visual engineering environment on Series 700 workstations. For use with HP-UX 8.07 or later.	\$940.
#AAF	Provides software on CD-ROM media	\$53.
#AAH	Provides software on DDS (4mm DAT) tape	\$53.
#ABA	US English Documentation	\$53.
#ABD	German Documentation	\$53.
#ABF	French Documentation	\$53.
#ABJ	Japanese Documentation	\$53.
E2111B	HP VEE-Test License-to-use for HP's visual engineering environment. Supports Series 700 workstations running HP-UX 8.07 or later. Requires E2070A IEEE-488 interface for HP-IB instrument control.	\$6,195.
#AL5	Add E2070A IEEE-488 Interface	\$780.
#AAF	Provides software on CD-ROM media	\$53.
#AAH	Provides software on DDS (4mm DAT) tape.	\$53.
#ABA	US English Documentation	\$53.
#ABD	German Documentation	\$53.
E2116B	HP VEE-Test/RunOnly Run Only License-to-use for HP's visual engineering environment.	\$1,840.
#AAH	Provides software on DDS (4mm DAT) tape.	\$53.
E2091B	SICL Instrument Control I/O libraries and drivers for C-language HP-IB instrument control applications. Media and documentation for Series 700 workstations with EISA backplanes and/or built-in port.0 Requires HP-UX 9.0. For instrument controller Series 700 workstations must use the E2071T high-speed HP-IB card or E2070A HP-IB card.	\$525.
#AAF	Provides software on CD-ROM media	N/C
#AAH	Provides software on DDS (4mm DAT) tape.	N/C
E2071I	EISA High-speed HP-IB interface card for instrument control. Customer must order E2091B Standard Instrument Control Library software	\$1,045.
#101	Add high-speed controller and 1Mbyte RAM buffer	\$525.
#104	Add high-speed controller and 4Mbyte RAM buffer	\$1,260.
#108	Add high-speed controller and 8Mbyte RAM buffer.	\$1,470.
E2085C	SRM/UX Network Server	
#AAF	Provides software on CD-ROM media	\$4,990.
#AAH	Provides software on DDS (4mm DAT) tape.	\$4,990.



DOCUMENTATION

This table represents the manuals available with the HP-UX Documentation (B2355B) product. These manuals may also be purchased separately by calling Direct Marketing Division (DMK).

B2355B for Series 700 HP-UX 9.0	Part Number(s)	# OBC Laser-ROM
#0BD General Usage		
Vue User's Guide	B1171-90061	Yes
VUE Quick Start Card	B1171-90062	Yes
#0BJ CD-ROM Complementary Documentation Set		
Programming with Xlib (Vol. 1)	B1171-90051	No
Programming with Xt Intrinsics (Vol. 4)	B1171-90053	No
X Toolkit Intrinsics Reference (Vol. 5)	B1171-90054	No
Managing Software Products with Network License System	D-11272-B	No
Managing NCS Software	D-11895-E	No
Starbase Beginner's Guide	98592-90048	Yes*
Starbase Graphics Techniques	98592-90081	Yes*
Using the Audio Application Programming	B2355-90027	No
Power Programming with RPC	019715-A00	No
*LaserROM version does not include color graphics.		
#0BE System Administration and Installation		
Installing and Administering LAN	98194-60530	Yes
Using Serial Line IP Protocols	98194-60533	Yes
Networking Overview	B1012-90013	Yes
Installing and Administering NFS	B1013-90009	Yes
Using ARPA Services	B1014-90009	Yes
Administering ARPA Services	B1014-90008	Yes
DDFA Utilities Reference	B1014-90012	Yes
Installing and Updating HP-UX (9.0)	B1864-90019 B2355-90039	Yes
HP-UX Master Index	B1864-90013 B2355-90043	N/A
HP-UX Error Message Catalog	B1862-90004	Yes
How HP-UX Works: Concepts for the System Administrator	B2355-90029	Yes
Managing Clusters of HP 9000 Computers	B1864-90015 B2355-90038	Yes
Sharing the HP-UX File System		
Installing Peripherals	B1864-90011 B2355-90041	Yes
System Administration Tasks	B1864-90010 B2355-90040	Yes
HP-UX System Security	B2355-90045	Yes
Solving HP-UX Problems	B2355-90030	Yes
HP-UX Reference	B2355-90033	Yes
Managing Software Products with Network License System	D-11272-B	No
Managing NCS Software	D-11895-E	No
Creating Product Packages	B2355-90031	Yes
Vue Users Guide	B1171-90061	Yes

B2355B for Series 700 HP-UX 9.0	Part Number(s)	# OBC Laser-ROM
#0BG HP-UX Advanced Usage		
Remote Access	B2355-90037	Yes
Mail System	B1862-90012	Yes
Terminal Control	B1862-90013	Yes
Text Formatting	B1862-90014	Yes
Number Processing	B1862-90015	Yes
Text Processing	B1862-90016	Yes
Shells	B2355-90046	Yes
Ultimate Guide to VI and EX Text Editors	97005-90015	Yes
Using the X Window System	B1171-90064	Yes
Terminal Session Manager User's Guide	B2351-90000	Yes
#0BF General Programming		
ADB Tutorial	92432-90005	Yes
LLA Programmer's Guide	98194-60534	Yes
Berkeley IPC Programmer's Guide	98194-60531	Yes
NetIPC Programmer's Guide	98194-60532	Yes
Power Programming with RPC	019715-A00	No
HP-UX Reference	B2355-90033	Yes
Posix Conformance Document	B2355-90034	Yes
Device I/O User's Guide	B1864-90002	Yes
Native Language Support	B2355-90036	Yes
Assembly Language Reference	92432-90004	Yes
HP-UX Portability Guide	B2355-90025	Yes
Using the Audio Application Programming Interface	B2355-90027	No
HP-UX Floating Point Guide	B2355-90024	Yes
#0BT C/ANSI C Compiler		
HP-UX Symbolic Debugger	B2355-90044	Yes
C Programmer's Guide	B1864-90008 92434-90002	Yes
C Programming Tools	B1864-90009	Yes
C Reference	92453-90024	Yes
Programming on HP-UX	B2355-90026	Yes

B2355B for Series 700 HP-UX 9.0	Part Number(s)	# 0BC Laser-ROM
#0BL User Environment HP Lib Extensions Programming with Xlib (Vol. 1) Xlib Programmer Reference (Vol. 2) X Toolkit Intrinsics Programming (Vol. 4) X Toolkit Intrinsics Reference (Vol. 5) HP Help System Developer's Guide X Window System C Quick Reference Mastering Motif Widgets HP OSF/Motif Style Guide HP OSF/Motif Programmer's Reference (Vol. 1) HP OSF/Motif Programmer's Guide ** This manual is provided on-line so it will not be structured to the CD ROM Complementary Documentation Set (#0BJ).	B1171-90050 B1171-90051 B1171-90052 B1171-90053 B1171-90054 B1171-90055 B1171-90056 B1171-90057 B1171-90058 B1171-90059 B1171-90060	Yes No No** No No Yes Yes Yes Yes Yes Yes
#0BM Starbase Programming Starbase C Pocket Reference Starbase FORTRAN Pocket Reference Starbase Pascal Pocket Reference Starbase Device Drivers Library Starbase Beginner's Guide Starbase Reference Starbase Graphics Techniques HP Fast Alpha/Font Manager Programmer's Starbase Display List Programmer's Starbase 9.0 Technical Addendum *LaserROM version does not include color graphics.	98592-90031 98592-90041 98592-90051 B2355-90019 98592-90048 B2355-90020 98592-90081 98592-90093 B2361-90000 B2355-90612	No No No Yes Yes* Yes Yes* Yes Yes Yes
#0BC LaserROM/UX License/Documentation – 1 User Only the LaserROM Disk and LaserROM User manuals ship with this option. #UA2 4-User License to Use No documentation ships with this option.		

The following section is all new and lists the documentation that will ship with the S300/400/700 media products. For your convenience, I have also listed which manuals that would ship with the keyboard kit at ECMO for hardware shipments.

B2352A for Series 700 HP-UX 9.0		Part Number(s)	#0BC Laser-ROM
HP-UX Runtime Environment, 2-User: all media options			
Installing and Updating HP-UX (9.0)		B1864-90019 B2355-90039	Yes
Installing Peripherals		B1864-90011 B2355-90041	Yes
Read Me Before Installing HP-UX		B1864-90621 B2352-90602	No
Release Notes		B1864-90620 B2352-90601	Yes
B2353A for Series 700 HP-UX 9.0		Part Number(s)	#0BC Laser-ROM
HP-UX Runtime Environment, 32-User S300/400: all media options			
HP-UX Runtime Environment, 8-User S700: all media options			
Installing and Updating HP-UX (9.0)		B1864-90019 B2355-90039	Yes
Installing Peripherals		B1864-90011 B2355-90041	Yes
Read Me Before Installing HP-UX		B1864-90621 B2352-90602	No
Release Notes		B1864-90620 B2352-90601	Yes
B2354A for Series 700 HP-UX 9.0			
HP-UX C/ANSI C Developer's Bundle: all media options			
No documentation shipped with this product.			
B2356A for Series 700 HP-UX 9.0			
HP-UX Developer's Toolkit: all media options			
No documentation shipped with this product.			
B2826B for Series 700 HP-UX 9.0		Part Number(s)	#0BC Laser-ROM
HP-UX Software CD Media			
Installing and Updating HP-UX (9.0)		B1864-90019 B2355-90039	Yes
Installing Peripherals		B1864-90011 B2355-90041	Yes
Read Me Before Installing HP-UX		B1864-90621 B2352-90602	No
Release Notes		B1864-90620 B2352-90601	Yes
B2357A for Series 700 HP-UX 9.0			
HP-UX General Programming Tools S300/400			
No documentation shipped with this product.			

B2826B for Series 700 HP-UX 9.0	Part Number(s)	#0BC Laser-ROM
HP-UX Software CD Media Installing and Updating HP-UX (9.0) Installing Peripherals Read Me Before Installing HP-UX Release Notes	B1864-90019 B 2355-90039 B1864-90011 B 2355-90041 B1864-90621 B2352-90602 B1864-90620 B2352-90601	Yes Yes No Yes
B2357A for Series 700 HP-UX 9.0		
HP-UX General Programming Tools S300/400 No documentation shipped with this product.		

The following will ship with the keyboard kits (Workstations) from ECMO.

Keyboards for Series 700 HP-UX 9.0	Part Number(s)	#0BC Laser-ROM
VUE Users Quick Start Card Using HP-UX Vue User's Guide	B1171-90062 B2910-90001 B1171-90061	Yes Yes Yes
Keyboard Doc PKg A1099-67909 VUE Users Quick Start Card Using HP-UX Vue User's Guide	B1171-90062 B2910-90001 B1171-90061	

HARDWARE AND SOFTWARE SUPPORT

The HP Support Options program offers basic hardware and software support for HP systems, peripherals and stand-alone software applications. The new 1 year warranty provides for on-site hardware repair with a response time of 3 days or better. Support Options allow customers to order the warranty response time they require, and add basic software support services.

Support Options Availability

Each support option represents a combination of hardware and software support for an HP product. The following table illustrates the deliverables of each support option.

Option 0S0	Option 0S1		
- License to use SW updates	- License to use SW updates		
- Updates*	- Updates*		
- Electronic Access	- Electronic Access		
- Next day on-site repair	- 4 hr. on-site repair		
Option 0S2	Option 0S3	Option 0S3	
- Telephone Support	- Telephone Support	- Installation	
- License to use SW updates	- License to use SW updates	- Network configuration	
- Updates*	- Updates*		
- Electronic Access	- Electronic Access		
- Next day on-site repair	- 4 hr. on-site repair		

* includes one copy of media and documentation updates for each media and documentation product ordered. (see next page).

SUPPORT OPTIONS FEATURES

FEATURE	DELIVERY SPECIFICATIONS	
Warranty Upgrade	Support services are added to the product warranty to provide either next-day or same-day (4 hour) on-site response for hardware problems.	
	Next Day	4 Hour
Coverage Hours	8am-5pm Mon-Fri	8am-9pm* Mon-Fri
Response Time	Next day	Best response; not to exceed 4 hours
* If service is requested before 5:00 pm, and HP engineer will respond on-site within 4 hours, if an on-site call is necessary.		
On-site repair	An HP engineer travels to the customer site and provides all labor, parts and materials necessary to maintain hardware products in good operating condition. Product malfunctions and failures are diagnosed and corrected.	
Telephone support	Unlimited, toll free access to the HP Response Center is provided for authorized callers. Response is immediate for critical calls and within 2 hours for all calls.	
License to use SW updates	Customer can use and copy updates to HP software on each system covered by HP System Support Options.	
Updates	As HP releases updates to HP software, the latest revisions of the software and reference manuals are made available to the system manager. HP provides one copy of media and documentation updates for each media and documentation product ordered with HP System Support Options.	
Electronic access	HP SupportLine provides electronic access to a database of current product and support information. Includes new product information, software status bulletins, engineering and application notes, etc. HP SupportLine can also be used to submit Response Center calls.	
Installation	Option 0S4 provides installation and network configuration for products that do not include installation in the product purchase price. Option 0S2 provides network configuration for products that include installation in the purchase price.	

MODEL NUMBER	PRODUCT NUMBER	OS0 NEXT DAY	OS1 4 HOUR	OS2 NEXT DAY PHONE SUP.	OS3 4 HOUR PHONE SUP.	OS4 INSTALLATION
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SERIES 700 INDUSTRIAL WORKSTATION – SYSTEM SUPPORT OPTIONS

742rt,	A2260A	558	626	1206	1274	428
745i, 747i	A2637A	810	1126	1458	1774	428
	A2638A	801	1116	1449	1764	428
	A2639A	801	1116	1449	1764	428

SYSTEM SUPPORT OPTIONS – EXISTING SYSTEMS

705	A2289A	612	809	1128	1325	428
	A2648A	606	770	1122	1286	428
	A2649A	654	866	1170	1382	428
710	A2208A	624	833	1140	1349	428
	A2209A	627	838	1143	1354	428
	A2210A	606	770	1122	1286	428
	A2211A	606	770	1122	1286	428
	A2212A	612	809	1128	1325	428
	A2213A	666	890	1182	1406	428
	A2214A	654	866	1170	1382	428
	A2215A	750	1058	1266	1574	428
	A2222A	756	1068	1272	1584	428
720	A1929A	663	905	1179	1421	428
	A1933A	705	962	1221	1478	428
	A2263A	843	1246	1359	1762	428
	A2264A	918	1394	1434	1910	428
730	A1946B	777	1087	1425	1735	428
	A1950B	819	1145	1467	1793	428
	A2265B	909	1327	1557	1975	428
	A2266B	984	1476	1632	2124	428
	A2276B	1506	2522	2154	3170	428
750	A2267B	1083	1673	1731	2321	428
	A2268B	1158	1822	1806	2470	428
	A2278B	921	1346	1569	1994	428
	A2281B	1551	2609	2199	3257	428
700 Servers	A2283A	1014	1529	1662	2177	428
	A2284A	978	1462	1626	2110	428
	A2286A	840	1236	1356	1752	428
Multi-Monitor	A2279A	870	1298	1386	1814	428
	A2277B	936	1380	1584	2026	428
	A2282B	1035	1610	1683	2258	428



MODEL NUMBER	PRODUCT NUMBER	OS0 NEXT DAY	OS1 4 HOUR	OS2 NEXT DAY PHONE SUP.	OS3 4 HOUR PHONE SUP.	OS4 INSTALLATION
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SERIES 700 – SYSTEM SUPPORT OPTIONS FOR UPGRADES, EXTERNAL STORAGE AND PERIPHERALS

Upgrades	A2269A	195	388	195	388	N/A
	A2270A	165	336	165	336	N/A
	A1957A	18	38	18	38	INCLUDED
	A2647A	0	0	0	0	INCLUDED
	98768A	225	297	225	297	N/A
	A2271A	165	336	165	336	N/A
	A2272A	0	0	0	0	N/A
	98767A	N/A	N/A	N/A	N/A	N/A
	98757A	N/A	N/A	N/A	N/A	N/A
	A2521A	N/A	N/A	N/A	N/A	INCLUDED
	A2522A	N/A	N/A	N/A	N/A	INCLUDED
	A2531A	N/A	N/A	N/A	N/A	INCLUDED
	A2532A	N/A	N/A	N/A	N/A	INCLUDED
	A2533A	N/A	N/A	N/A	N/A	INCLUDED
	A2534A	N/A	N/A	N/A	N/A	INCLUDED
Memory	A2216A	12	24	12	24	N/A
	A2217A	24	48	24	48	N/A
	A2218A	48	100	48	100	N/A
	A1979A	24	48	24	48	N/A
	A2513A	99	196	99	196	N/A
Internal Storage	A2219A	42	86	42	86	N/A
	A2221A	75	1488	75	1488	N/A
	A2223A	15	28	15	28	N/A
	A2224A	54	110	54	110	N/A
	A2274A	81	158	81	158	N/A
	A2275A	90	177	90	177	N/A
	A1983A	75	148	75	148	186
	A1984A	24	48	24	48	186
	A1989A	81	158	81	158	186
	A1985A	66	129	66	129	371
	A1968A	24	48	24	48	186
Eisa Internal Storage	A1986A	0	0	0	0	186
	25525A	0	0	0	0	96
	25560A	0	0	0	0	96
	25567A	0	0	0	0	276
	J2156A	33	67	33	67	371
	J2159A	27	52	27	52	371
	J2165A	0	0	0	0	461
Graphics	A1454A	78	153	78	153	N/A

MODEL NUMBER	PRODUCT NUMBER	OS0 NEXT DAY	OS1 4 HOUR	OS2 NEXT DAY PHONE SUP.	OS3 4 HOUR PHONE SUP.	OS4 INSTALLATION
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SERIES 700 – SOFTWARE SUPPORT OPTIONS

NOTE: Products with "N/C" System Support Options must appear on the sales order (product number + option) to receive support.

	B2826B	N/C	N/C	N/C	N/C
	B2826A	N/C	N/C	N/C	N/C
DOCUMENTATION					
	B2355B	105	105	105	105
	B2355A	105	105	105	105
HP-UX RUN-TIME ENVIRONMENT					
	B2352A	120	120	120	120
	B2353A	120	120	179	179
	B2387A	120	120	120	120
	B2315A	105	105	105	105
	B2487A	180	180	270	270
	B2815B	105	105	105	105
	B2815A	105	105	105	105
	B2395A	120	120	120	120
	B2396A	120	120	120	120
	B2397A	120	120	120	120
	B2816A	120	120	120	120
	B2213A	N/C	N/C	240	240
SOFTWARE DEVELOPMENT TOOLS					
	B2354A	180	180	520	520
	B2356A	N/C	N/C	520	520
	B1193A	1740	1740	2610	2610
	B2413A	N/C	N/C	225	225
	B2402A*				
	B2403A	N/C	N/C	N/C	N/C
	B2406A	250	250	375	375
	B2407A	N/C	N/C	N/C	N/C
	B2408A	180	180	270	270
	B2414A	N/C	N/C	225	225
	B2430A	N/C	N/C	240	240
	B2431A	N/C	N/C	240	240
	B2432A	N/C	N/C	188	188
	B3152A	TBD	TBD	TBD	TBD
	B3153A	TBD	TBD	TBD	TBD
	B3154A	TBD	TBD	TBD	TBD
	B2451A	N/C	N/C	520	520
	B2452A	N/C	N/C	240	240
	B2342A	N/C	N/C	260	260
	B2343A	N/C	N/C	240	240
	B2327A	N/C	N/C	240	240
	B2327AB	N/C	N/C	240	240
	B2600B	230	230	345	345
	B2615B	N/C	N/C	N/C	N/C
	B2640B	N/A	N/A	N/A	N/A



MODEL NUMBER	PRODUCT NUMBER	OS0 NEXT DAY	OS1 4 HOUR	OS2 NEXT DAY PHONE SUP.	OS3 4 HOUR PHONE SUP.	OS4 INSTALLATION
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SERIES 700 — SOFTWARE SUPPORT OPTIONS**SOFTWARE DEVELOPMENT TOOLS**

B2643B	N/A	N/A	N/A	N/A
B2600A	230	230	345	345
B2615AJ	N/C	N/C	N/C	N/C
B2617B	270	270	540	540
B2620B	N/C	N/C	N/C	N/C
B2606B	250	250	500	500
B2645B	N/A	N/A	N/A	N/A
B2648B	N/A	N/A	N/A	N/A
B2600A	230	230	345	345
B2620AJ	N/C	N/C	N/C	N/C
B2606B	250	250	500	500
B2616B	N/C	N/C	N/C	N/C
B2606A	250	250	500	500
B2616AJ	N/C	N/C	N/C	N/C
B3260A	684	684	982	982
B3265A	N/C	N/C	N/C	N/C
B3261A	395	395	593	593
B3269A				
B3275A	N/A	N/A	N/A	N/A
B3278A	N/A	N/A	N/A	N/A
B3262A	354	354	502	502
B3273A				
B2622A	594	594	842	842
B2626A	N/C	N/C	N/C	N/C
B1183A	250	250	500	500
B1186A	N/C	N/C	N/C	N/C
B1189A	250	250	750	750
B1486A				
B1487A				

DISTRIBUTED COMPUTING TOOLS

B1740L	N/C	N/C	240	240
B1741L	N/C	N/C	240	240
B1742L	N/C	N/C	240	240
B1732A	N/C	N/C	N/C	N/C
B2144A				
B2674A	N/C	N/C	240	240
B2920A	N/C	N/C	N/C	N/C
B2921A	N/C	N/C	N/C	N/C
B2923A	N/C	N/C	240	240
B2924A	N/C	N/C	240	240
B2925A	N/C	N/C	240	240
B2922A	N/C	N/C	N/C	N/C
B2926A	N/C	N/C	520	520
B2927A	N/C	N/C	N/C	N/C

MODEL NUMBER	PRODUCT NUMBER	OS0 NEXT DAY	OS1 4 HOUR	OS2 NEXT DAY PHONE SUP.	OS3 4 HOUR PHONE SUP.	OS4 INSTALLATION
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SERIES 700 – SOFTWARE SUPPORT OPTIONS

SYSTEM AND NETWORK MANAGEMENT

B1807A	N/C	N/C	150	150
B1806A	N/C	N/C	200	200
B3168A	N/C	N/C	240	240
B1766B	N/C	N/C	240	240
H5289A	N/C	N/C	240	240
H5292A	N/C	N/C	80	80
H5294A	N/C	N/C	80	80
B1942A	N/C	N/C	240	240
B1943A	N/C	N/C	75	75
B1945A	N/C	N/C	N/C	N/C
B1945B	N/C	N/C	N/C	N/C
B1929A	N/C	N/C	240	240
B1929B	N/C	N/C	240	240
B1900B	N/C	N/C	240	240
B1907B	N/C	N/C	N/C	N/C
B1917B				
J2317A	N/C	N/C	240	240
B1040A				
J2314A	N/C	N/C	240	240
J2311A	N/C	N/C	260	260
J2343A				
27361B				
J2320A				
J2323A				
B1037A	N/C	N/C	600	600

NETWORKING AND COMMUNICATIONS

J2226A	N/C	N/C	240	240
J2227A	N/C	N/C	167	167
J2229A	N/C	N/C	225	225
J2165A				
J2156A				
25567A				
A2544A				
A2545A				
J2140A	N/C	N/C	105	105
J2159A				
J2101A				
J2104A	N/C	N/C	197	197
J2160A	N/C	N/C	240	240
J2161A	N/C	N/C	240	240
J2162A	N/C	N/C	240	240
J2163A	N/C	N/C	180	180



MODEL NUMBER	PRODUCT NUMBER	0S0 NEXT DAY	0S1 4 HOUR	0S2 NEXT DAY PHONE SUP.	0S3 4 HOUR PHONE SUP.	0S4 INSTALLATION
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SERIES 700 – SOFTWARE SUPPORT OPTIONS**PC INTEROPERABILITY**

B2382A	70	70	105	105
J2239A	N/C	N/C	240	240
B1011C	N/C	N/C	240	240

GRAPHICS

B2363C	N/C	N/C	240	240
B2364C	N/C	N/C	75	75
B2363D	N/C	N/C	240	240
B2364D	N/C	N/C	75	75
B3176A	N/C	N/C	520	520
B3177A	N/C	N/C	115	115
B2156B	200	200	300	300
B2930A	N/C	N/C	240	240
B2931A	N/C	N/C	150	150

COLLABORATIVE MULTI MEDIA TOOLS

B2157A	N/C	N/C	149	149
B2305L	N/C	N/C	240	240
B2307A	N/C	N/C	240	240
B2154A	N/C	N/C	75	75
B2818A	N/C	N/C	240	240
C1788A				
A2229A				
C1751A				
B2895A	N/C	N/C	115	115
B2898A	N/C	N/C	115	115
B2681A	N/C	N/C	115	115

MISCELLANEOUS

B1504A	N/C	N/C	240	240
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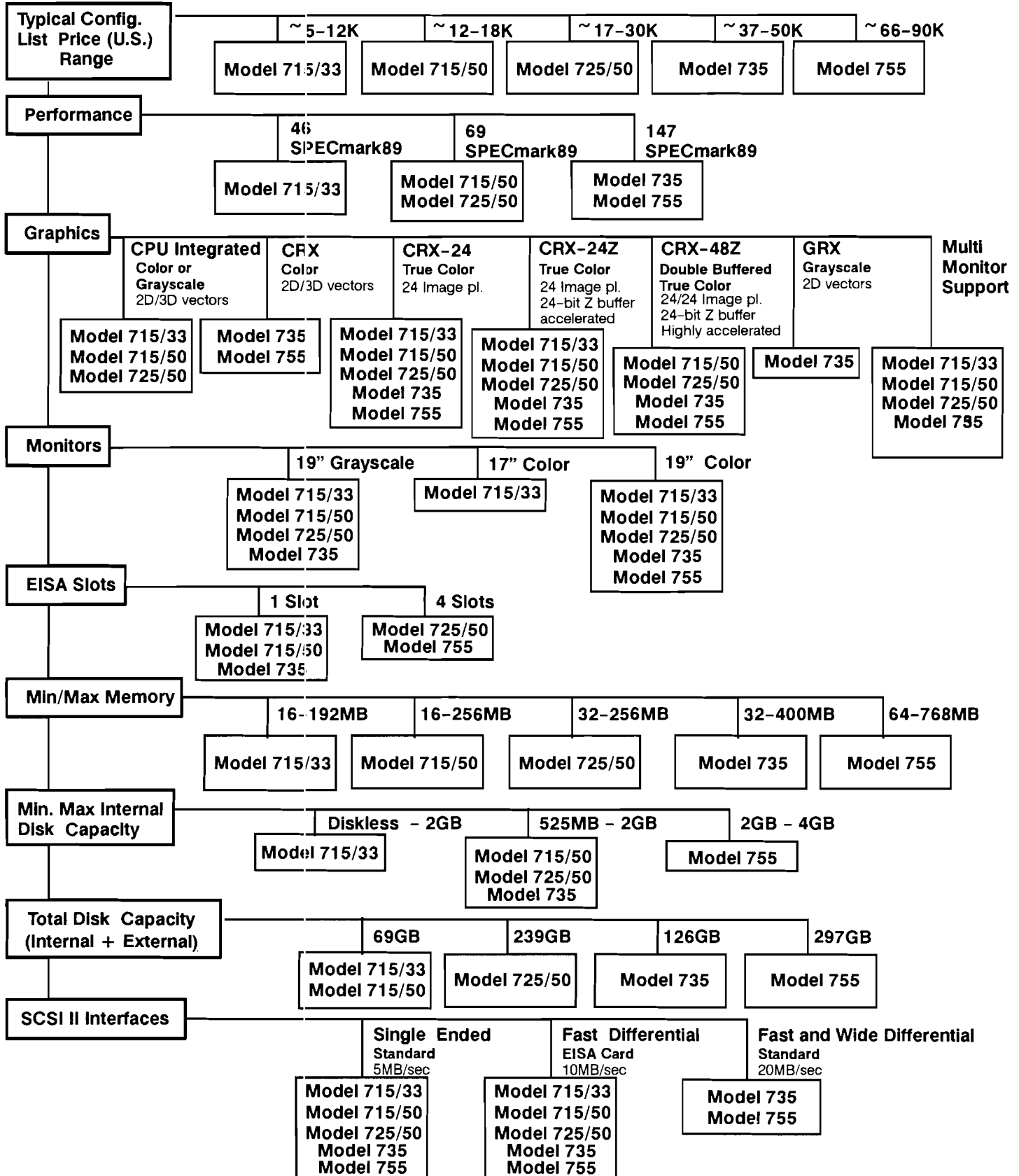
Tel Supt LTU Updates

B2402A	
0SA (for #0A9)	360
0SB (for #0A9)	360
0SC (for #0AA)	1440
0SD (for #0AA)	1440
0SE (for #0AG)	720
0SF (for #0AG)	720
0SG (for #0AN)	72
0SH (for #0AN)	72

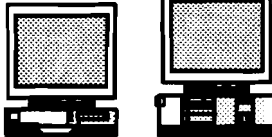
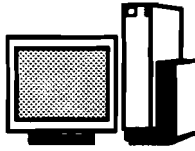
CONFIGURATION GUIDE

The following section will provide the information necessary to configure the New Series 700, PA-RISC 7100 workstations. This section provides step-by-step instructions to configure the Model 715/33, Model 715/50, Model 725/50, Model 735 and the Model 755. Although the standard configurations will provide a fully-functional workstation, factory integrated and add-on options are offered to satisfy further customer requirements.

Also included in this section are the enhancements to the first generation products and an overview of the new external storage devices.

CONFIGURING SERIES 700 NEW MODELS (PA-RISC 7100 BASED)

SERIES 700 NEW MODELS (PA-RISC 7100 BASED)

	MODEL 715/33	MODELS 715/50 725/50	MODEL 735	MODEL 755
				
MIPS	41	62	124	124
SPECmark89	46	69	147	147
SPECint92	24	36	80	80
SPECfp92	45	72	150	150
MFLOPS (DP)	8.6	13	40	40
X11perf	7,633	11,187	19,115	19,115
2D/3D vec/sec	610,000	920,000	1.16M	1.16M
Packaging	desktop	desktop/deskside	desktop	deskside
Processor	PA-RISC 7100	PA-RISC 7100	PA-RISC 7100	PA-RISC 7100
Clock	33Mhz	50Mhz	99Mhz	99Mhz
Cache (instr/data)	64KB/64KB	64KB/64KB	256KB/256KB	256KB/256KB
RAM	8 - 192MB	16 - 256MB for 715/50 32 - 256MB for 725/50	32 - 400MB	64 - 768MB
Graphics	Integr. 19" greyscale Integr. 17" color Integr. 19" color CRX-24 19" color CRX-24Z 19" color	Integr. 19" greyscale Integr. 19" color CRX-24 19" color CRX-24Z 19" color CRX-48Z 19" color	GRX 19" greyscale CRX 19" color CRX-24 19" color CRX-24Z 19" color CRX-48Z 19" color	CRX 19" color CRX-24 19" color CRX-24Z 19" color CRX-48Z 19" color
Internal Formatted Disk Capacity	2GB	2GB	2GB	4GB
Total Disk Capacity	69.7GB	69.7GB/ 239.8GB	126.4GB	297.5GB
Internal Remov- able Media Options	1.44MB 3.5" floppy 600MB CD-ROM 2.0GB 3.5" DDS tape 4-8GB 3.5" DDS tape with compression	1.44MB 3.5" floppy 600MB CD-ROM 2.0GB 3.5" DDS tape 4-8GB 3.5" DDS tape with compression	1.44MB 3.5" floppy	1.44MB 3.5" floppy 600MB CD-ROM 2.0GB 3.5" DDS tape 4-8GB 3.5" DDS tape with compression
Built-In I/O	1 SCSI-II interface 2 RS-232 ports 1 Centronics port 1 HP-HIL CD-quality audio I/O	1 SCSI-II interface 2 RS-232 ports 1 Centronics port 1 HP-HIL CD-quality audio I/O	1 fast-wide SCSI-II 1 SCSI-II interface 2 RS-232 ports 1 Centronics port 1 HP-HIL CD-quality audio I/O	1 fast-wide SCSI-II 1 SCSI-II interface 2 RS-232 ports 1 Centronics port 1 HP-HIL CD-quality audio I/O
	IEEE 802.3 Ethernet (Thick)	IEEE 802.3 Ethernet (Thick)	One of 3: IEEE 802.3 Ethernet (Thick or Thin) or integr. FDDI	IEEE 802.3 Ethernet (Thick or Thin) Optional integr. FDDI
EISA Slots	1 (optional)	1 on 715/50 / 4 on 725/50 (standard) (standard)	1 (standard)	4 (standard)
Keyboard Options	HP-UX keyboard PC-style keyborad	HP-UX keyboard PC-style keyborad	HP-UX keyboard PC-style keyborad	HP-UX keyboard PC-style keyborad
Operating System	HP-UX 9.0	HP-UX 9.0	HP-UX 9.0	HP-UX 9.0
Competitive Offerings	Sun ELC, IPX, IPC, IBM 220, DEC 20, 25, 133 SGI Indigo R3000	Sun IPX, SS 2, SS10-30, IBM 220, 320H, DEC 133, SGI Indigo R4000	Sun SS10-41, SS10-52, IBM 350, DEC 240, SGI Crimson	Sun SS10-52 SS10-54, IBM 560, IBM 970, DEC 5900, SGI Crimson
Base Price	\$4,990	\$11,890 \$17,390	\$37,390	\$66,390
	19" G, 8MB, diskless	19" G, 16MB, 525MB disk/ 19" G, 32MB, 525MB disk	19" GRX, 32MB, 525MB disk	19" CRX, 64MB, 2GB disk

SYSTEM LOCALIZATION (Must Order)

Don't forget to order a localization kit and the appropriate options for your Series 700 workstation. The localization kit contains the keyboard, mouse, power cords, and system documentation. There are two versions of the localization kits: **A1099C** containing the HP-HIL Keyboard and **A2055B** containing the PC-Style keyboard. When ordering the localization kit, specify the version of HP-UX documentation required in addition to the country code option.

The HP-UX documentation options are **#APP** (HP-UX 8.0–8.7 User's Guide), **#APH** (HP-UX 9.0 User's Guide), and **#0B0** (no documentation).

The localized option (country code) allows you to specify the country where the system will be used. This selection indicates the appropriate set of workstation power cords, the localized keyboard and the local language documentation. The localized kits are listed below:

A1099C Localized Options:

#ABA	North American Series 700 Localized Kit
#ABC	Canadian– French Series 700 Localized Kit
#ABD	German Series 700 Localized Kit
#ABE	European Spanish Series 700 Localized Kit
#ABF	French Series 700 Localized Kit
#ABH	Dutch Series 700 Localized Kit
#AB0	Taiwanese Series 700 Localized Kit
#ABJ	Katakana Series 700 Localized Kit
#ABK	ICON Series 700 Localized Kit
#ABM	Latin Spanish Series 700 Localized Kit
#ABN	Norwegian Series 700 Localized Kit
#ABP	Swiss German Series 700 Localized Kit
#ABQ	Swiss French Series 700 Localized Kit
#AB1	Korean Series 700 Localized Kit
#ABS	Swedish Series 700 Localized Kit
#ABU	United Kingdom Series 700 Localized Kit
#AKX	Belgian Series 700 Localized Kit
#ABX	Finnish Series 700 Localized Kit
#ABY	Danish Series 700 Localized Kit
#ABZ	Italian Series 700 Localized Kit
#AR0	Kanji Series 700 Localized Kit

A2205B Localized Options:

(now includes 11 local keyboards)

#ABA	English Keyboard/N. American Power Cord
#ABC	English Keyboard/N. American Power Cord
#ABD	German Keyboard/German Power Cord
#ABE	Spanish Keyboard/Spanish Power Cord
#ABF	French Keyboard/French Power Cord
#ABH	English Keyboard/Dutch Power Cord
#AB0	English Keyboard/Taiwanese Power Cord
#ABJ	English Keyboard/Japanese Power Cord
#ABK	English Keyboard/International Power Cord
#ABM	English Keyboard/Latin Amer. Power Cord
#ABN	Norwegian Keyboard/Norwegian Power Cord
#ABP	Sw. German Keyboard/Swiss Power Cord
#ABQ	Sw. French Keyboard/Swiss Power Cord
#AB1	English Keyboard/Korean Power Cord
#ABS	Swedish Keyboard/Swedish Power Cord
#ABU	UK Keyboard/ UK Power Cord
#AKX	English Keyboard/Belgian Power Cord
#ABX	English Keyboard/Finnish Power Cord
#ABY	Danish Keyboard/Danish Power Cord
#ABZ	Italian Keyboard/Italian Power Cord
#AR0	English Keyboard/Japanese Power Cord

Keyboard Style: Select One

A1099C	A2205B
(HP-HIL Keyboard, 3-button Mouse, localized manual set, appropriate power configuration)	(PC-style Keyboard, 3-button Mouse, localized manual set, appropriate power configuration)

HP-UX Documentation Version: Select One

HP-UX Rel. 8.0–8.7 #APP	HP-UX Rel. 9.0 #APH	Delete Documentation #0B0
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Localized Option: Select One

N. American #ABA	Can. French #ABC	German #ABD	Eur. Spanish #ABE	French #ABF	Dutch #ABH	Taiwanese #AB0
Katakana #ABJ	ICON #ABK	Lat. Spanish #ABM	Norwegian #ABN	Sw. German #ABP	Sw. French #ABQ	Korean #AB1
Swedish #ABS	UK #ABU	Belgian #AKX	Finnish #ABX	Danish #ABY	Italian #ABZ	Kanji #AR0

CONFIGURING A MODEL 715/33 WORKSTATION

Where to Start – Model 715/33 Factory-integrated Systems

To configure a Model 715/33, you start with one of five basic standard configurations.

<u>Product Number</u>	<u>Model Description</u>	<u>Model 715/33 Standard Configurations</u>		
		<u>Monitor</u>	<u>Memory</u>	<u>Disk</u>
A2610A	715/33 19" Grayscale	19" 1280x1024, 72Hz grayscale	16MB	diskless
A2612A	715/33 17" Color	17" 1024 x768, 75Hz color	16MB	diskless
A2613A	715/33 19" Color	19" 1280x1024, 72Hz color	16MB	525MB
A2620A	715/33 CRX-24	19" 1280x1024, 72Hz color	16MB	525MB
A2621A	715/33 CRX-24Z	19" 1280x1024, 72Hz color	16MB	525MB

The following pages explain how these systems can be customized by adding factory-installed RAM, internal disk storage, removable media and EISA expansion. It also describes the many field installable options and provides a flow chart that identifies basic configuration constraints. 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 715/33s come with six memory slots on the motherboard. Each system comes with a base of 16MB and can be changed at the factory to have 8MB, 32MB, 48MB, 128MB and 196MB of RAM. **Be aware that 8MB of RAM is supported only in diskless grayscale configurations. 8MB does NOT support local HP-VUE, Starbase, PHIGS, local mounted disks, local swap space, floppy, CDROM, DAT, SoftPC, printer spooler, RS232 driver, Centronics driver, audio drivers, or cooperative computing products.** The 8, 16, 32 and 48MB configurations use memory modules made with 4 megabit dynamic random access memory (DRAMs) chips. The 128MB and 196MB configurations use memory modules made with 16 megabit DRAMS. The 16 megabit chips are the industry's state-of-the-art technology enabling 4-times the memory capacity provided by the 4 megabit technology.

It is important to know what type of memory is used to reach each configuration. Though four and 16 megabit based memory modules can be mixed, having 4 megabit technology in the system will preclude the customer from reaching the 192MB capacity without first having to remove the 4 megabit modules.

Many customers choose to add field installable RAM as their memory demands grow over time. The table on the next page shows how many memory slots will be used for the different factory integrated system configurations and how many will be left over to be used for add-on memory. It also shows the maximum memory that can be reached by adding field installable memory to factory configured systems.

There are three add-on memory options available for the Model 715/33 -- an 8MB kit (consists of two 4MB boards), a 16MB kit (consists of two 8MB boards) and a 64MB kit (consists of two 32MB boards). The 8MB and 16MB use the 4 megabit technology while the 64MB kit uses the 16 megabit technology.

Models 715/33 Memory Configurations					
Option #	Factory Integrated System Configuration	Total Number of Memory Slots in the System	Number of Memory Slots Used	Number of Slots Free	Maximum Memory Possible
#012	Total of 8MB	6	2	4	136MB
standard	Total of 16MB	6	2	4	144MB
#AN8	Total of 32MB	6	4	2	96MB
#ANN	Total of 48MB	6	6	0	48MB
#112	Total of 128MB	6	4	2	192MB
#U FK	Total of 192MB	6	6	0	192MB

Adding Internal Storage

The 715/33 chassis has room for two internal hard disks, and one floppy, CD-ROM or DDS tape drive. **Due to power restrictions, the bay reserved for removable media cannot be used for a third hard disk.** All 715/33 standard configurations with 19-inch color monitors come standard with a 525MB disk. The #013 option enables the buyer to receive the system with a 1GB disk instead of the 525MB disk. The #014 delete disk option is available for those wanting a diskless 19" color system. It can only be used in conjunction with the model A2613A system. It is not an option for the CRX-24 and CRX-24Z systems.

The factory-integrated internal storage options are summarized below.

Option Number	Description
Opt. 013	Replace 525MB disk with a 1GB disk drive
Opt. 014	Delete 525MB disk drive
Opt. AT9	Add 525MB disk drive
Opt. AT7	Add 1GB disk drive
Opt. AMB	Add 3.5" 1.4MB floppy disk drive
Opt. AM8	Add 600MB 5.25" CD-ROM drive
Opt. AMW	Add 2GB DDS tape drive
Opt. AMX	Add 4-8GB DDS-DC tape drive

**EISA Option**

An EISA slot is optional (option # ALD) on the Model 715/33 (EISA is standard on the model 715/50). Once the EISA slot is added to the system, it provides access to one of eight Hewlett Packard field installable add-on boards (see add-on section) and to EISA boards available from 3rd party vendors. Be aware that EISA Fast SCSI II (Differential) adapter cards sold with previously available HP workstations may experience problems if used in a Model 715 system. One should use version 25525B to insure best results.

Note: EISA is not an option with the Model's A2620A (CRX-24) and A2621A (CRX-24Z) systems. Nor is it available in conjunction with the A2673A (CRX-24 graphics controller) and A2674A (CRX-24Z graphics accelerator). These add-on cards occupy the same space used for the EISA slot and as such, are mutually exclusive.

Support Options

All Model 715/33 systems are covered by the new 1 year warranty. This coverage provides for repair of malfunctioning hardware on the customer's site within 3 working days for the first year following the delivery of the system. To insure faster response time and to add a level of software support, choose from among the options listed below (Opt. 0S0, 0S1, 0S2, and 0S3). For HP installation of most products, Opt. 0S4 may be ordered. These options provide a simple direct means for ordering the right level of first year support as an option to the hardware that requires it.

Option Number	Description
Opt. 0S0	Next Day On-site repair, license to use S/W updates, and Electronic Access
Opt. 0S1	Four hour On-site repair, license to use S/W updates, and Electronic Access
Opt. 0S2	Next Day On-site repair, license to use S/W updates, Telephone support, and Electronic Access
Opt. 0S3	Four hour On-site repair, and license to use S/W updates, Telephone support, and Electronic Access
Opt. 0S4	System installation, configuration and verification.

Instant Ignition

An HP-UX 9.0 license is included with each Model 715/33, but if you want it (or any of the other layered software products available through Instant Ignition) pre-loaded on the 715/33's disk at the factory then you must order the appropriate software product with its Instant Ignition option (see Software Section of this guide).

Field-installed Model 715/33 Options

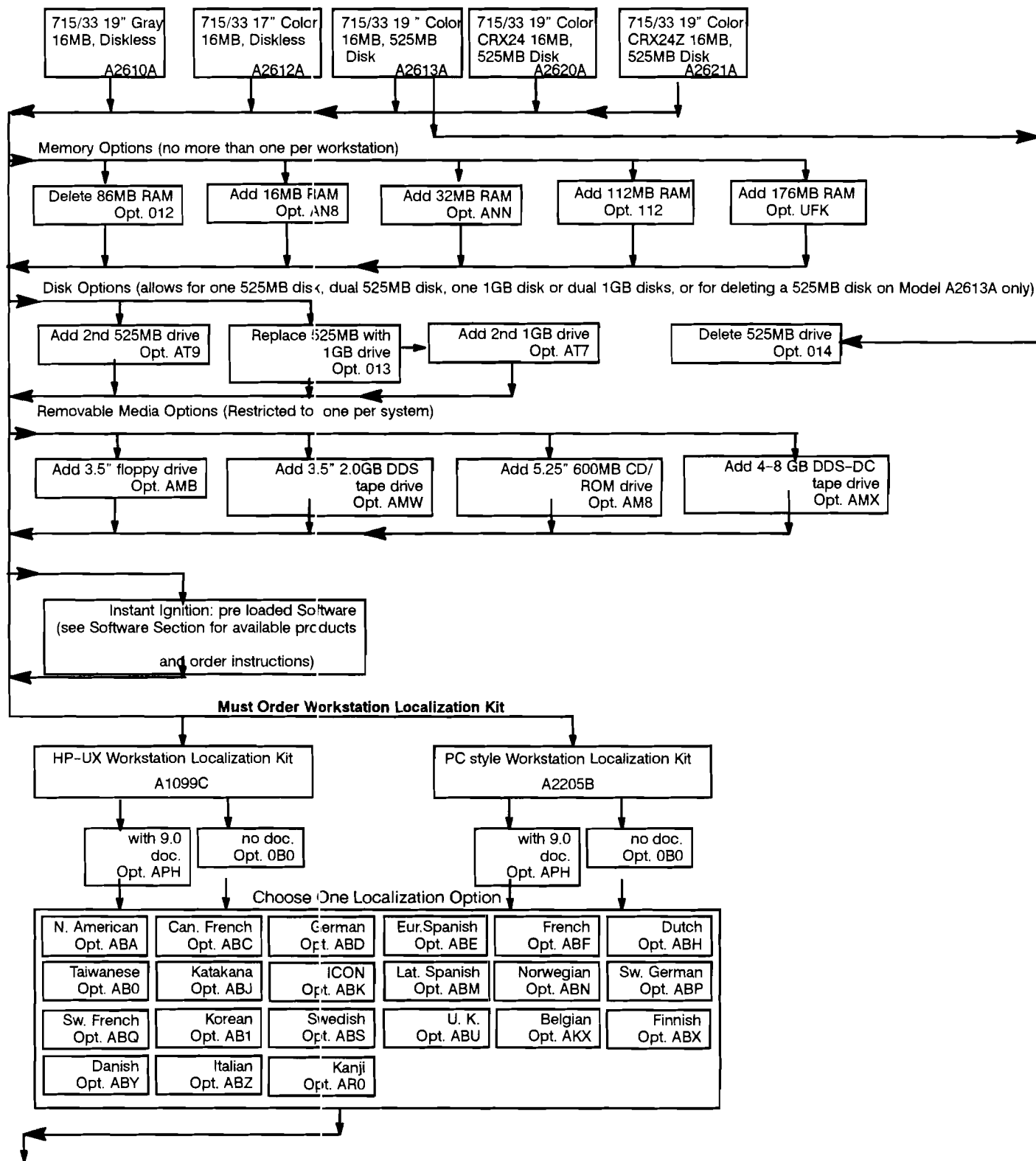
Ethernet Options

An AUI Ethernet connector for use with ThickNET cabling is standard on the 715/33. If you want to run Ethernet through ThinNET or EtherTwist you must use an add-on transceiver. Refer to the table below for transceiver model numbers.

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 715/33 shown below.

<u>Prod./Option Number</u>	<u>Description</u>
A2670A	Add-on ThinLan Ethernet transceiver
A2671A	Add-on EtherTwist transceiver
A2815A	8MB RAM add-on
A2816A	16MB RAM add-on
A2646A	64MB RAM add-on
A2800A	525MB SCSI disk
A2801A	1GB SCSI disk
A2802A	3.5" 1.4MB floppy disk drive
A2803A	600MB 5.25" CD-ROM drive
A2274A	2GB DDS tape drive
opt. AHV	Upgrade kit for Model 715/33
A2275A	4-8GB DDS-DC tape drive
opt. AHV	Upgrade kit for Model 715/33
B2156B	PowerShade 3D Rendering Software
opt. AAH	DDS tape
opt. AAU	CD-ROM
A2804A	EISA expansion slot
25525A	EISA Fast SCSI II (Differential) adapter card
25560A	EISA HPIB 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
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
J2156A	FDDI/9000 for Series 700
Opt. 1AW	Delete Software Right-to-Use
A2544A	Apollo Token Ring Adapter
J2104A	ISDN BRI ISA/EISA Adapter
Opt. AAH	DDS tape
Opt. AAU	CD-ROM Certificate
Opt. 099	Add-on Software for Ethernet-to-ISDN Gateway for TCP-IP

Configuring a Model 715/33 Workstation with Factory Integrated Options



● Continue with External Storage, Software, and Peripherals

Model 715/33 Configuration Constraints

<u>Total amount of RAM</u>	192MB	<u>Total No. of SCSI II buses</u>	1
<u>Number of EISA slots</u>	1 (opt.)	- One internal single-ended SCSI II bus - One add-on fast differential SCSI II bus via EISA upgrade kit	
EISA not available on CRX24 and CRX24Z systems			
<u>Internal SCSI II bus Configuration Constraints</u>			
Max no. SCSI devices			7
Max no. disk drives			7
Three internal device slots			
Four external drives			
Max no. Floppy drives			1
Max no. CD-ROM drives			1
Max no. 4MM DDS 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>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> (Combined 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

CONFIGURING A MODEL 715/50 WORKSTATION

Where to Start – Model 715/50 Factory-integrated Systems

To configure a Model 715/50, you start with one of five basic standard configurations.

Model 715/50 Standard Configurations					
Product Number	Model Description	Monitor	Memory	Disk	
A2625A	715/50 19" Grayscale	19" 1280x1024, 72Hz grayscale	16MB	525MB	
A2627A	715/50 19" Color	19" 1280x1024, 72Hz color	16MB	525MB	
A2633A	715/50 CRX-24	19" 1280x1024, 72Hz color	16MB	525MB	
A2634A	715/50 CRX-24Z	19" 1280x1024, 72Hz color	16MB	525MB	
A2635A	715/50 CRX-48Z	19" 1280x1024, 72Hz color	16MB	525MB	

The following pages explain how these systems can be customized by adding factory-installed RAM, internal disk storage and removable media. It also describes the many field installable options and provides a flow chart that identifies basic configuration constraints. 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 715/50s come with eight memory slots on the motherboard. Each system comes with a base of 16MB and can be expanded at the factory to have 32MB, 64MB, 128MB and 256MB of RAM. The 16, 32 and 64MB configurations use memory modules made with 4 megabit dynamic random access memory (DRAMs) chips. The 128MB and 256MB configurations use memory modules made with 16 megabit DRAMS. The 16 megabit chips are the industry's state-of-the-art technology enabling 4-times the memory capacity provided by the 4 megabit technology.

It is important to know what type of memory is used in each configuration. Though four and 16 megabit based memory modules can be mixed, having 4 megabit technology in the system will preclude the customer from reaching the 256MB capacity without first having to remove the 4 megabit modules.

Many customers choose to add field installable RAM as their memory demands grow over time. The table below shows how many memory slots will be used for the different factory integrated system configurations and how many will be left over to be used for add-on memory. It also shows the maximum memory that can be reached by adding field installable memory to factory configured systems.

There are three add-on memory options available for the Model 715/50 – an 8MB kit (consists of two 4MB boards), a 16MB kit (consists of two 8MB boards) and a 64MB kit (consists of two 32MB boards). The 16MB kit uses the 4 megabit technology while the 64MB kit uses the 16 megabit technology.

Models 715/50 Memory Configurations					
Option #	Factory Integrated System Configuration	Total Number of Memory Slots in the System	Number of Memory Slots Used	Number of Slots Free	Maximum Memory Possible
standard	Total of 16MB	8	2	6	208MB
#AN8	Total of 32MB	8	4	4	160MB
#AND	Total of 64MB	8	8	0	64MB
#112	Total of 128MB	8	4	4	256MB
#UFB	Total of 256MB	8	8	0	256MB

Adding Internal Storage

The 715/50 chassis has room for two internal hard disks, and one floppy, CD-ROM or DDS tape drive. **Due to power restrictions, the bay reserved for removable media cannot be used for a third hard disk.** All 715/50 standard configurations come standard with a 525MB disk. The #013 option enables the buyer to receive the system with a 1GB disk instead of the 525MB disk.

The factory-integrated internal storage options are summarized below.

<u>Option Number</u>	<u>Description</u>
Opt. 013	Replace 525MB disk with a 1GB disk drive
Opt. AT9	Add 525MB disk drive
Opt. AT7	Add 1GB disk drive
Opt. AMB	Add 3.5" 1.4MB floppy disk drive
Opt. AM8	Add 600MB 5.25" CD-ROM drive
Opt. AMW	Add 2GB DDS tape drive
Opt. AMX	Add 4-8GB DDS-DC tape drive

Support Options

All Model 715/50 systems are covered by the new 1 year warranty. This coverage provides for repair of malfunctioning hardware on the customer's site within 3 working days for the first year following the delivery of the system. To insure faster response time and to add a level of software support, choose from among the options listed below (Opt. 0S0, 0S1, 0S2, and 0S3). For HP installation of most products, Opt. 0S4 may be ordered. These options provide a simple direct means for ordering the right level of first year support as an option to the hardware that requires it.

<u>Option Number</u>	<u>Description</u>
Opt. 0S0	Next Day On-site repair, license to use S/W updates, and Electronic Access
Opt. 0S1	Four hour On-site repair, license to use S/W updates, and Electronic Access
Opt. 0S2	Next Day On-site repair, license to use S/W updates, Telephone support, and Electronic Access
Opt. 0S3	Four hour On-site repair, and license to use S/W updates, Telephone support, and Electronic Access
Opt. 0S4	System installation, configuration and verification.

Instant Ignition

An HP-UX 9.0 license is included with each Model 715/50, but if you want it (or any of the other layered software products available through Instant Ignition) pre-loaded on the 715/50's disk at the factory then you must order the appropriate software product with its Instant Ignition option (see Software Section of this guide).

Field-installed Model 715/50 Options

EISA Add-on Card Options

An EISA slot is standard on non-CRX-24, CRX-24Z and CRX-48Z versions of the Model 715/50. This slot provides access to one of eight Hewlett Packard field installable add-on boards (see list below) and to EISA boards available from 3rd party vendors. Be aware that EISA Fast SCSI II (Differential) adapter cards sold with previously available HP workstations may experience problems if used in a Model 715 system. One should use version 25525B to insure best results.

Ethernet Add-on Option

An AUI Ethernet connector is standard on the 715/50. If you want to run Ethernet through ThinNET or EtherTwist you must use a add-on transceiver. Refer to the table below for transceiver model numbers.

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 715/50 shown below.

<u>Prod./Option Number</u>	<u>Description</u>
A2670A	Add-on ThinLan Ethernet transceiver
A2671A	Add-on EtherTwist transceiver
A2815A	8MB RAM add-on
A2816A	16MB RAM add-on
A2646A	64MB RAM add-on
A2800A	525MB SCSI disk
A2801A	1GB SCSI disk
A2802A	3.5" 1.4MB floppy disk drive
A2803A	600MB 5.25" CD-ROM drive
A2274A	2GB DDS tape drive
opt. AHV	Upgrade kit for Model 715/50
A2275A	4-8GB DDS-DC tape drive
opt. AHV	Upgrade kit for Model 715/50
B2156B	PowerShade 3D Rendering Software
opt. AAH	DDS tape
opt. AAU	CD-ROM
25525A	EISA Fast SCSI II (Differential) adapter card
25560A	EISA HPIB 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
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
J2156A	FDDI/9000 for Series 700
Opt. 1AW	Delete Software Right-to-Use
A2544A	Apollo Token Ring Adapter
J2104A	ISDN BRI ISA/EISA Adapter
Opt. AAH	DDS tape
Opt. AAU	CD-ROM Certificate
Opt. 099	Add-on Software for Ethernet-to-ISDN Gateway for TCP-IP

CONFIGURING A MODEL 725/50 WORKSTATION

Where to Start – Model 725/50 Factory-Integrated Systems

To configure a Model 725/50, you start with one of five basic standard configurations.

Model 725/50 Standard Configurations					
<u>Product Number</u>	<u>Model Description</u>	<u>Monitor</u>	<u>Memory</u>	<u>Disk</u>	
A2685A	725/50 19" Grayscale	19" 1280x1024, 72Hz grayscale	32MB	525MB	
A2689A	725/50 19" Color	19" 1280x1024, 72Hz color	32MB	525MB	
A2691A	725/50 CRX-24	19" 1280x1024, 72Hz color	32MB	1.0GB	
A2692A	725/50 CRX-24Z	19" 1280x1024, 72Hz color	32MB	1.0GB	
A2693A	725/50 CRX-48Z	19" 1280x1024, 72Hz color	32MB	1.0GB	

The following pages explain how these systems can be customized by adding factory-installed RAM, internal disk storage and removable media. It also describes the many field installable options and provides a flow chart that identifies basic configuration constraints. 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 725/50s come with eight memory slots on the motherboard. Each system comes with a base of 32MB and can be expanded at the factory to have 64MB, 128MB and 256MB of RAM. The 32 and 64MB configurations use memory modules made with 4 megabit dynamic random access memory (DRAMs) chips. The 128MB and 256MB configurations use memory modules made with 16 megabit DRAMs. The 16 megabit chips are the industry's state-of-the-art technology enabling 4-times the memory capacity provided by the 4 megabit technology.

It is important to know what type of memory is used in each configuration. Though four and 16 megabit based memory modules can be mixed, having 4 megabit technology in the system will preclude the customer from reaching the 256MB capacity without first having to remove the 4 megabit modules.

Many customers choose to add field installable RAM as their memory demands grow over time. The table below shows how many memory slots will be used for the different factory integrated system configurations and how many will be left over to be used for add-on memory. It also shows the maximum memory that can be reached by adding field installable memory to factory configured systems.

There are three add-on memory options available for the Model 725/50 -- an 8MB kit (consists of two 4MB boards), a 16MB kit (consists of two 8MB boards) and a 64MB kit (consists of two 32MB boards). The 16MB kit uses the 4 megabit technology while the 64MB kit uses the 16 megabit technology.

Models 725/50 Memory Configurations					
Option #	Factory Integrated System Configuration	Total Number of Memory Slots in the System	Number of Memory Slots Used	Number of Slots Free	Maximum Memory Possible
standard	Total of 32MB	8	4	4	160MB
#ANN	Total of 64MB	8	8	0	64MB
#ANY	Total of 128MB	8	4	4	256MB
#UFN	Total of 256MB	8	8	0	256MB

Adding Internal Storage

The 725/50 chassis has room for two internal hard disks, and one floppy, CD-ROM or DDS tape drive. **Due to power restrictions, the bay reserved for removable media cannot be used for a third hard disk.** For standard configurations with a 525MB disk, the #013 option enables the buyer to receive the system with a 1GB disk instead of the 525MB disk.

The factory-integrated internal storage options are summarized below.

<u>Option Number</u>	<u>Description</u>
Opt. 013	Replace 525MB disk with a 1GB disk drive
Opt. AT9	Add 525MB disk drive
Opt. AT7	Add 1GB disk drive
Opt. AMB	Add 3.5" 1.4MB floppy disk drive
Opt. AM8	Add 600MB 5.25" CD-ROM drive
Opt. AMW	Add 2GB DDS tape drive
Opt. AMX	Add 4-8GB DDS-DC tape drive

Support Options

All Model 725/50 systems are covered by the new 1 year warranty. This coverage provides for repair of malfunctioning hardware on the customer's site within 3 working days for the first year following the delivery of the system. To insure faster response time and to add a level of software support, choose from among the options listed below (Opt. 0S0, 0S1, 0S2, and 0S3). For HP installation of most products, Opt. 0S4 may be ordered. These options provide a simple direct means for ordering the right level of first year support as an option to the hardware that requires it.

<u>Option Number</u>	<u>Description</u>
Opt. 0S0	Next Day On-site repair, license to use S/W updates, and Electronic Access
Opt. 0S1	Four hour On-site repair, license to use S/W updates, and Electronic Access
Opt. 0S2	Next Day On-site repair, license to use S/W updates, Telephone support, and Electronic Access
Opt. 0S3	Four hour On-site repair, and license to use S/W updates, Telephone support, and Electronic Access
Opt. 0S4	System installation, configuration and verification.

Instant Ignition

An HP-UX 9.0 license is included with each Model 725/50, but if you want it (or any of the other layered software products available through Instant Ignition) pre-loaded on the 725/50's disk at the factory then you must order the appropriate software product with its Instant Ignition option (see Software Section of this guide).

Field-installed Model 725/50 Options

EISA Add-on Card Options

An EISA slot is standard on non-CRX-24, CRX-24Z and CRX-48Z versions of the Model 725/50. This slot provides access to one of eight Hewlett Packard field installable add-on boards (see list below) and to EISA boards available from 3rd party vendors. Be aware that EISA Fast SCSI II (Differential) adapter cards sold with previously available HP workstations may experience problems if used in a Model 725 system. One should use version 25525B to insure best results.

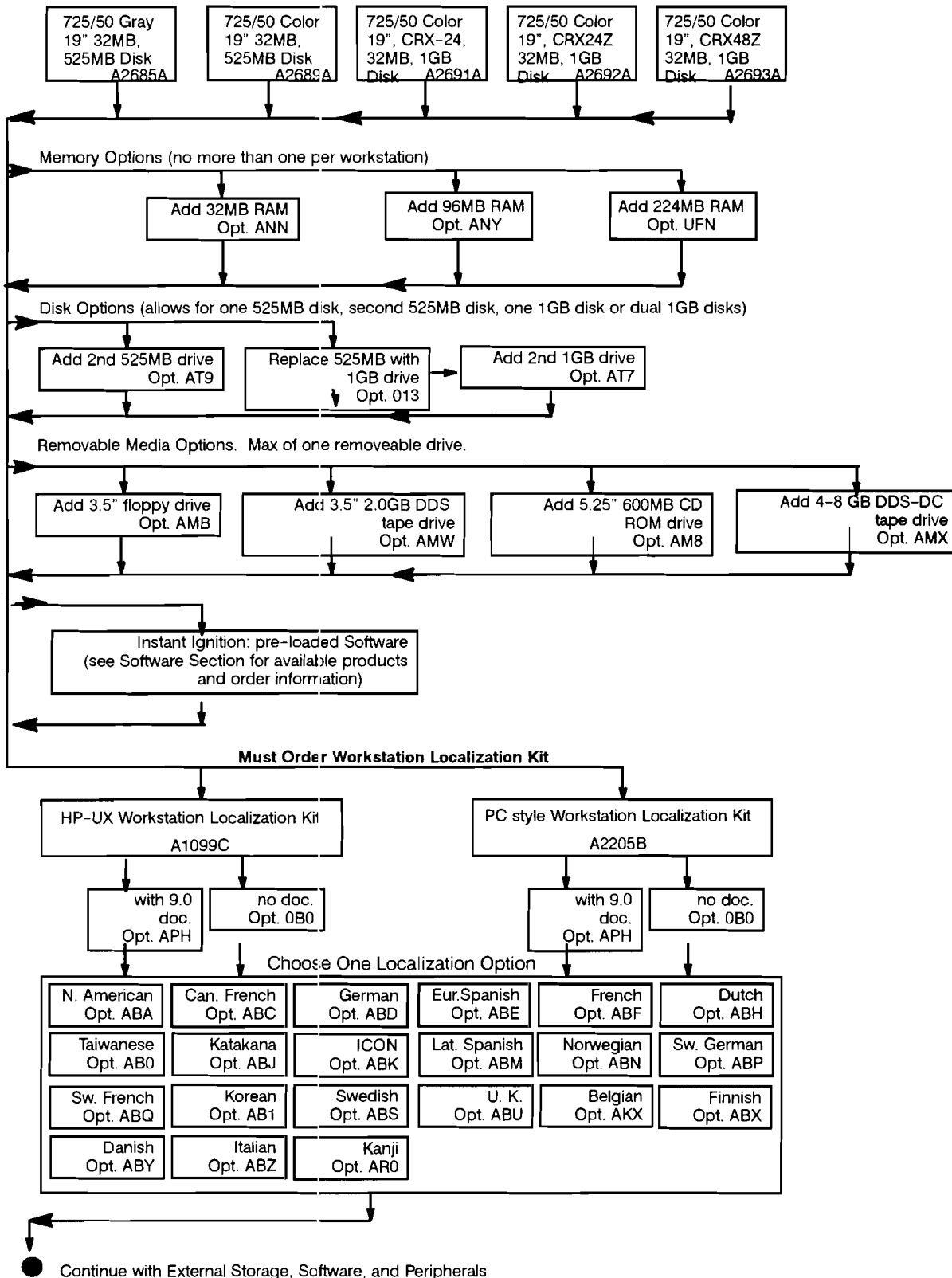
Ethernet Add-on Option

An AUI Ethernet connector is standard on the 725/50. If you want to run Ethernet through ThinNET or EtherTwist you must use a add-on transceiver. Refer to the table below for transceiver model numbers.

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 725/50 shown below.

Prod./Option Number	Description
A2670A	Add-on ThinLan Ethernet transceiver
A2671A	Add-on EtherTwist transceiver
A2815A	8MB RAM add-on
A2816A	16MB RAM add-on
A2646A	64MB RAM add-on
A2800A	525MB SCSI disk
A2801A	1GB SCSI disk
A2802A	3.5" 1.4MB floppy disk drive
A2803A	600MB 5.25" CD-ROM drive
A2274A	2GB DDS tape drive
opt. AHW	Upgrade kit for Model 725/50
A2275A	4-8GB DDS-DC tape drive
opt. AHW	Upgrade kit for Model 725/50
B2156B	PowerShade 3D Rendering Software
opt. AAH	DDS tape
opt. AAU	CD-ROM
25525A	EISA Fast SCSI II (Differential) adapter card
25560A	EISA HPIB 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
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
J2156A	FDDI/9000 for Series 700
Opt. 1AW	Delete Software Right-to-Use
A2544A	Apollo Token Ring Adapter
J2104A	ISDN BRI ISA/EISA Adapter
Opt. AAH	DDS tape
Opt. AAU	CD-ROM Certificate
Opt. 099	Add-on Software for Ethernet-to-ISDN Gateway for TCP-IP

Configuring a Model 725/50 Workstation with Factory Integrated Options



Model 725/50 Configuration Constraints

<u>Total amount of RAM</u>	256MB	<u>Total No. of SCSI II buses</u>	1
<u>Number of EISA slots</u>	4 (std.)	• One internal single-ended SCSI II bus • Up to four add-on fast differential SCSI II buses via EISA/SCSI card(s)	
• Only 3 EISA slots available on CRX-24, CRX-24Z, and CRX-48Z systems			
<u>Internal SCSI II bus Configuration Constraints</u>			
• Max no. SCSI devices			7
• Max no. disk drives			7
Three internal device slots			
Four external drives			
• Max no. Floppy drives			1
• Max no. CD-ROM drives			1
• Max no. 4MM DDS 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>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> (Combined 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

CONFIGURING A MODEL 735 WORKSTATION

Where to Start – Model 735 Standard Configurations

To configure a Model 735, you start with one of eight basic standard configurations.

<u>Product Number</u>	<u>Model Description</u>	<u>Model 735 Standard Configurations</u>		
		<u>Monitor</u>	<u>Memory</u>	<u>Disk</u>
A2600A	735 GRX	19" 1280x1024, 72Hz grayscale	32MB	525MB
A2659A	735 GRX	19" 1280x1024, 72Hz grayscale	32MB	1GB
A2601A	735 CRX	19" 1280x1024, 72Hz color	32MB	525MB
A2608A	735 CRX	19" 1280x1024, 72Hz color	32MB	1GB
A2602A	735 CRX-24	19" 1280x1024, 72Hz color	32MB	1GB
A2603A	735 CRX-24Z	19" 1280x1024, 72Hz color	32MB	1GB
A2609A	735 CRX-48Z	19" 1280x1024, 72Hz color	32MB	1GB
A2607A	735 Dual CRX	19" 1280x1024, 72Hz color	32MB	1GB

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 735 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 735s come with 16MB of RAM installed directly onto the motherboard, and 12 memory slots available for expansion. You can order Model 735s from the factory with a total of 32MB, 48MB, 80MB, 144MB, 208MB or 400MB of RAM by ordering one of the factory integrated 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. AN8	Add 16MB RAM (provides total system memory of 48MB)
Opt. AND	Add 48MB RAM (provides total system memory of 80MB)
Opt. UFM	Add 112MB RAM (provides total system memory of 144MB)
Opt. UFK	Add 176MB RAM (provides total system memory of 208MB)
Opt. UFL	Add 368MB RAM (provides total system memory of 400MB)

There are two add on memory options available for the Model 735 -- a 32MB kit (consists of two 16MB boards) and a 64MB kit (consists of two 32MB boards). These memory kits are customer installable.

<u>Product Number</u>	<u>Description</u>
A2512A	32MB RAM add-on
A2646A	64MB RAM add-on (uses 16Mbit DRAMs)

The table below shows how many memory slots will be used for the different factory integrated system configurations and how many will be left over to be used for add-on memory. It also shows the maximum memory that can be reached for each memory configuration.

<u>Models 735 Memory Configurations</u>					
<u>Factory Integrated System Configuration</u>	<u>Total Number of Memory Slots in the System</u>	<u>Number of Memory Slots Used</u>	<u>Number of Slots Free</u>	<u>Maximum Memory Possible</u>	
Total of 32MB	12	2	10	352MB	
Total of 48MB	12	2	10	368MB	
Total of 80MB	12	4	8	336MB	
Total of 144MB	12	8	4	272MB	
Total of 208MB	12	12	0	208MB	
Total of 400MB	12	12	0	400MB	

Adding Internal Storage

The Model 735 contains two internal storage bays, each of which can house one 3.5" SCSI-II hard disk device. One of these bays can alternatively be used for a 3.5" 1.4 MB floppy disk drive.

The Model 735 supports both single-ended and fast-wide devices; however, these two types of devices may not be combined internally in the same system. Since the floppy drive is a single-ended SCSI-II device, it can only be combined with a single-ended hard disk. Likewise, *if both bays are filled with hard disks, they must both contain the same type of hard disk — either single-ended or fast-wide.*

The factory-integrated internal storage options are summarized below.

Option Number	Description
Opt. 010	Replace the 1GB single-ended SCSI II disk with 1GB fast-wide SCSI-II disk drive
Opt. AT7	Add a 1GB internal single-ended SCSI-II disk drive
Opt. AT8	Add a 1GB internal fast-wide SCSI-II disk drive
Opt. AMB	Add 3.5" 1.44MB Floppy Disk Drive

Factory Integrated Networking Options

Only one of the following three network options can be integrated on the Model 735 without using an EISA slot: Ethernet ThinNET, Ethernet ThickNET, or FDDI. ThinNET is the default unless ThickNET or FDDI is specified. To get both Ethernet and FDDI capability on the Model 735, order one as an integrated option and one as an EISA card. For example, for best performance, order integrated FDDI and the Ethernet EISA card.

The factory-integrated networking options which do not require an EISA slot are summarized below.

Option Number	Description
Opt. 008	Install LAN AUI configuration (overrides the default ThinNET)
Opt. 009	Install FDDI configuration (overrides the default ThinNET)

Other Factory-Installed Options

To configure a system without graphics, a delete monitor and graphics option (Opt. 007) is available.

Support Options

All Model 735 systems are covered by the new 1 year warranty. This coverage provides for repair of malfunctioning hardware on the customer's site within 3 working days for the first year following the delivery of the system. To insure faster response time and to add a level of software support, choose from among the options listed below (Opt. 0S0, 0S1, 0S2, and 0S3). For HP installation of most products, Opt. 0S4 may be ordered. These options provide a simple direct means for ordering the right level of first year support as an option to the hardware that requires it.

Option Number	Description
Opt. 0S0	Next Day On-site repair, license to use S/W updates, and Electronic Access
Opt. 0S1	Four hour On-site repair, license to use S/W updates, and Electronic Access
Opt. 0S2	Next Day On-site repair, license to use S/W updates, Telephone support, and Electronic Access
Opt. 0S3	Four hour On-site repair, and license to use S/W updates, Telephone support, and Electronic Access
Opt. 0S4	System installation, configuration and verification.

Instant Ignition

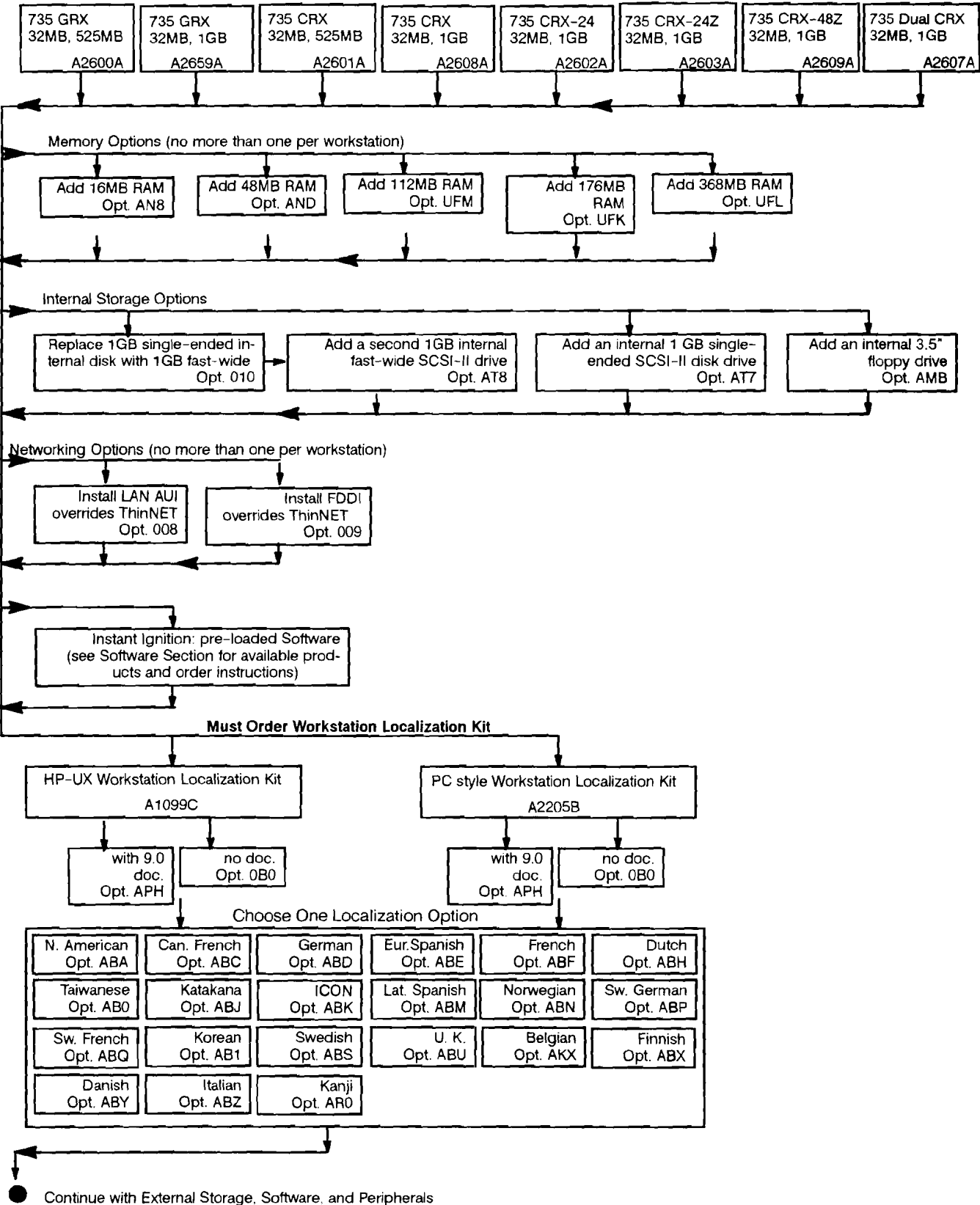
An HP-UX 9.0 license is included with each Model 735, but if you want it (or any of the other layered software products available through Instant Ignition) pre-loaded on the 735's disk at the factory then you must order the appropriate software product with its Instant Ignition option (see Software Section of this guide).

Field-installed Model 735 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 735 shown below.

Prod./Option Number	Description
A2512A	32MB RAM add-on
A2646A	64MB RAM add-on
A2565A	525MB SCSI disk
A2563A	1GB Single-Ended SCSI disk
A2566A	1GB Fast-Wide SCSI disk
A1984A	3.5" 1.4MB floppy disk drive
A2665A	FDDI Daughter Card Kit
A2658A	ThickNET Daughter Card Kit
A2831A	ThinNET Daughter Card Kit
B2156B	PowerShade 3D Rendering Software
opt. AAH	DDS tape
opt. AAU	CD-ROM
25525A	EISA Fast SCSI II (Differential) adapter card
25560A	EISA HPiB 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
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
J2156A	FDDI/9000 for Series 700
Opt. 1AW	Delete Software Right-to-Use
A2544A	Apollo Token Ring Adapter
J2104A	ISDN BRI ISA/EISA Adapter
Opt. AAH	DDS tape
Opt. AAU	CD-ROM Certificate
Opt. 099	Add-on Software for Ethernet-to-ISDN Gateway for TCP-IP

Model 735 Workstations & Servers – Factory Configurations



Adding Another Internal Hard Disk or Removable Media

All Model 755 base configurations come with an initial 2.0GB single-ended SCSI-II disk drive. The factory will exchange the single-ended SCSI-II disk for a 2.0GB fast-wide SCSI-II disk when Opt. 011 is ordered. A second 2.0GB disk of the same type as the first can then be added using the appropriate option (either AT6 for single-ended, or ATA for fast-wide. Note that single-ended and fast-wide disks cannot be mixed internally in the same system). In addition to the disks, up to two of the factory installed removable media options listed below can be added. Only one of each option may be ordered, and the floppy (Opt. AMB) and DDS drive (Opt. AMX) cannot be ordered for the same system. Field installed removable media products offer further configuration options.

Option Number	Description
Opt. 011	Replace 2.0GB Single-Ended internal disk with 2.0GB Fast-Wide disk
Opt. AT6	Add Second 2.0GB Single-Ended SCSI-II disk drive
Opt. ATA	Add Second 2.0GB Fast-Wide SCSI-II disk drive
Opt. AM8	Add CD-ROM
Opt. AMX	Add 4mm DDS - DC with data compression
Opt. AMB	Add 3.5" 1.4MB Floppy Disk Drive

EISA Options

Four EISA expansion slots are standard on the Model 755. 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. Be aware that for best results the model 25525B version EISA Fast SCSI II (Differential) adapter cards should be used instead of the previously available model 25525A. (Note: to insure that your system will meet the power requirements of any EISA options you add, check the sum of their Power Ratings against the EISA Power Limits Matrix below).

Option Number	Description	Power Ratings (Watts)
Opt. ALE	Add EISA SCSI II Host Adapter	15.4
Opt. ALF	Add EISA HP-IB Host Adapter	15.3
Opt. ALG	Add EISA LAN/9000	17.0 (BNC "T") 21.3 (AUI)
Opt. ALQ	Add EISA FDDI/9000	10.0
	IEEE 802.5 X.25/9000	19.2
	IEEE 802.5 Token Ring 9000	11.2

EISA Power Limits				
Graphics Options	Internal Mass Storage Options			
	Removable Media Drive(s) and 2 Hard Disks	1 Hard Disk	2 Hard Disks Only	All Other Options
2 CRX-24 or 1 CRX-242	31W	47W	60W	70W
1 CRX-24	54W	70W	70W	70W
All Other Graphics	60W	70W	70W	70W
No Graphics	70W	70W	70W	70W

Networking

ThinNet Ethernet is standard on the Model 755, but if you want to run Ethernet through ThickNet or any other media, you must order the LAN AUI configuration option (Opt. AL9) below. In addition, you may order the integrated FDDI networking option (Opt. TBD).

<u>Option Number</u>	<u>Description</u>
Opt. AL9	LAN AUI Configuration (activates AUI port – requires external MAU)
Opt. 009	Add Integrated FDDI

Other Factory-Installed Options

To configure a system without graphics, a delete monitor and graphics option (Opt. 007) is available.

Support Options

All Model 755 systems are covered by the new 1 year warranty. This coverage provides for repair of malfunctioning hardware on the customer's site within 3 working days for the first year following the delivery of the system. To insure faster response time and to add a level of software support, choose from among the options listed below (Opt. 0S0, 0S1, 0S2, and 0S3). For HP installation of most products, Opt. 0S4 may be ordered. These options provide a simple direct means for ordering the right level of first year support as an option to the hardware that requires it.

<u>Option Number</u>	<u>Description</u>
Opt. 0S0	Next Day On-site repair, license to use S/W updates, and Electronic Access
Opt. 0S1	Four hour On-site repair, license to use S/W updates, and Electronic Access
Opt. 0S2	Next Day On-site repair, license to use S/W updates, Telephone support, and Electronic Access
Opt. 0S3	Four hour On-site repair, and license to use S/W updates, Telephone support, and Electronic Access
Opt. 0S4	System installation, configuration and verification.

Instant Ignition

An HP-UX 9.0 license is included with each Model 755, but if you want it (or any of the other layered software products available through Instant Ignition) pre-loaded on the 755's disk at the factory then you must order the appropriate software product with its Instant Ignition option (see Software Section of this guide).

Multi-Monitor Configurations

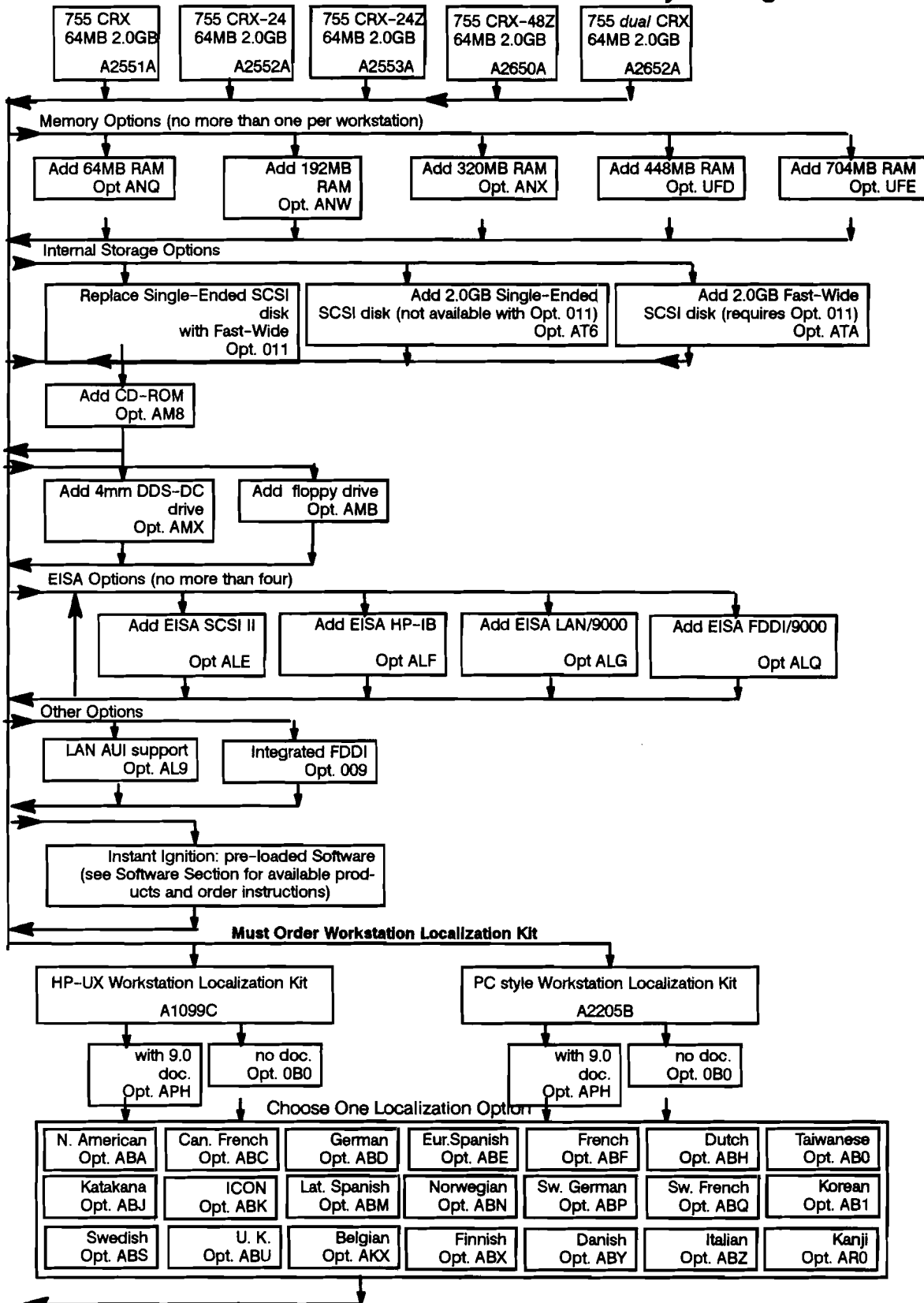
A dual CRX configuration is available as one of the standard configurations of the Model 755, and it configures exactly as any of the other standard configurations. On the Model 750, however, two other multi-monitor configurations were supported, that require some adjustment in order to be accommodated on the Model 755. Quad CRX and Dual CRX-24 require 2 graphics cards, connected through 2 SGC slots. In standard configurations of the Model 755, the second SGC slot is taken up with an audio/adaptor board. This same audio/adaptor board is used to hold the FDDI board when that option is chosen. Quad CRX and Dual CRX-24 configurations are supportable, but preclude the use of the audio and FDDI functionality normally available.

Field-installed Model 755 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 755 shown below.

Prod./Option Number	Description
A2513A	64MB RAM add-on
A2559A	128MB RAM add-on
A2556A	Add 2.0GB Singel-Ended SCSI-II disk (order for system with one internal disk only)
A2564A	Add 2.0GB Fast-Wide SCSI-II disk (order for system with one internal disk only)
A1985A	Add 600MB CD-ROM Drive
A2274A	Add 2.0GB DDS Tape Drive
Opt. AHS	Upgrade kit for Models 750/755
A2275A	Add 4mm DDS-DC Tape Drive with data compression
Opt. AHS	Upgrade kit for Models 750/755
A1968A	3.5" 1.4MB floppy disk drive
A1454A	24-bit Z buffer and graphics accelerator
B2156B	PowerShade for HP-UX 9.0
Opt. AAH	4mm DDS tape
Opt. AAU	CD ROM Certificate
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
Opt. 1AW	Delete Software Right-to-Use
A2544A	Apollo Token Ring Adapter
J2104A	ISDN BRI ISA/EISA Adapter
Opt. AAH	Software on DDS Tape
Opt. AAU	CD ROM Certificate
Opt. 099	Add-on Software for Ethernet-to-ISDN Gateway for TCP-IP

Model 755 Workstations - Factory Configurations



Continue with External Storage, Software, and Peripherals

Model 755 Configuration Constraints

<u>Total amount of RAM</u>	768MB	<u>Total No. of SCSI II buses</u>	5
		D One standard single-ended SCSI II bus	
		D One standard fast-wide SCSI-II bus	
		D Up to 4 add-on fast differential SCSI II buses via optional EISA/SCSI cards	
<u>Number of EISA Slots</u>	4 (standard)		
<u>Standard Single-Ended SCSI II bus Configuration Constraints</u>			
D	Max no. SCSI devices		7
D	Max no. disk drives		7
	Two internal 5.25 in. drives		
	Five external 5.25 in. drives		
D	Max no. CD-ROM drives		1
D	Max no. 4mm DDS drives (or any tape device)		2
D	Max no. 9-track tape drives (or any tape device)		2
D	Max no. 650MB magneto-optical drives		1
D	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>Standard Fast-Wide SCSI II bus Configuration Constraints</u>			
D	Max no. SCSI drives (Fast-Wide disk drives only)		15
D	Max no. SCSI Disk Arrays (addressed as single device)		7
<u>External add-on differential SCSI II bus Configuration Constraints (per bus)</u>			
D	Max no. SCSI drives (Fast/Differential disk drives only)		7
D	Max no. SCSI Disk Arrays (addressed as single device)		7
<u>Cable Length Constraints (Internal and External)</u>			
D	Standard Single-Ended SCSI II bus max total aggregate lengths		6 meters
D	Fast Differential add-on SCSI II bus max total aggregate lengths		25 meters
D	Standard Fast-Wide SCSI II bus max total aggregate lengths		25 meters

NEW FOR FIRST GENERATION SERIES 700 PRODUCTS

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The Models 705, 710, 720, 730, and 750 belong to the first generation family of the Series 700. These products will continue to be offered in their current configurations. Some of the enhancements that were developed for the new generation of the Series 700 have been implemented in the first generation family as well. These enhancements will be effective November, 1992.

What's new:

- System SPECmark89 ratings have increased with HP-UX 9.0.

<u>Model</u>	<u>SPECmark w/8.07</u>	<u>SPECmark w/9.0</u>
705	34.6	39.5
710	49.7	56.5
720	59.5	66.5
730	76.8	86.6
750	77.5	86.6

- Models 705,710,720,730 & 750 support HP-UX 9.0 or HP-UX 8.07.
- HP-UX 9.0 may be ordered with Instant Ignition Option #0DK.
- Models 720 & 730 support the **NEW** 1.0GB and 525MB SCSI-II disk drives, these drives are available as add-on products and **must be ordered with HP-UX 9.0.** (see add-on sections for 720 & 730)
- Models 720 & 730 have a Swap option from the 420MB to the 525MB SCSI II disk for basic configurations. This option replaces the 420MB disk drive with a 525MB disk drive in the standard configuration and does not allow opt# AMH to be ordered concurrently. **The 525MB disk is only supported with HP-UX 9.0.**
- The Model 730 will come with the new SONY 19" Color monitor standard.
- The New SONY 19" Color monitor will be available as a standalone product supported where a 19" monitor is already installed.

EXTERNAL STORAGE

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This Price and Configuration guide provides product features, pricing, and order information for external storage products supported by the Series 700 in the section "Upgrades, External Storage, and Peripherals." 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 Mini Tower Configurations (C3020T–C3024T) as well as the Series 6000 Model 1350SE Mass Storage System or in standalone modules. Standalone removable media options available include: DDS Tape Drives (with and without data compression), CD-ROM, re-writable magneto-optical disks, and magneto-optical autochangers. All SCSI-II standalone removable media drives, as well as the Model 1350SE and Mini Tower, support many of these same devices and plug into the standard single-ended SCSI-II connector integral to the Series 700.

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 supports fast SCSI-II disk drives and the new disk arrays, it does not support any other Single-Ended SCSI-II device.** It can also support the Fast-Wide Mini Towers (C3034T–C3036T), but only at Fast Differential speeds. Support of Fast-Wide Mini Towers also require a 68 pin to 50 pin cable (C2906A, or C2907A, or C2916). All external storage systems as well as expansion kits can be installed in the field.

The new generation Series 700 also supports SCSI-II fast differential Mini Towers (C3034T–C3036T). Fast differential mini towers require a 68 pin cable (see cable matrix). The intent on 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 or the Fast Wide SCSI bus. This segregation of peripherals delivers maximum performance and expandability.

Caution – Ordering External Storage

The new Mini Towers follow a structure that differs from the ordering and configuration of the Model 1350SX and 1350SE. Instead of ordering a base system with additional devices to fill the box as options, the Mini Towers come in preconfigured bundles with expansion kits to add more devices. In order to tell the factory how you want the 1350SX, 1350SE or Disk Arrays 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), a language option must be specified in order to receive the owner's manual.

In order to tell the factory how you want the Mini Towers configured, a few important conventions must be followed.

- (1) For every preconfigured bundle, you must specify opt. 001:

Opt. 001 HP workstation firmware for installation into C3034T-C3038T or C3020T-C3024T

- (2) For every expansion kit you must also order opt. 001 you may also order:

Opt. ODG Field Service installation into C3020T-C3024T or C3020T-C3024T

- (3) Each mini tower can hold up to seven devices; Therefore, do not order more expansion kits than you have towers to place them in.

